

**Table 4B**  
**2010 Pediatric Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**  
**Comparison of Racial and Ethnic Distribution by County**  
**Children Aged < 5 Years** <sup>(2)</sup>

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| <b>Comparison of Racial and Ethnic Distribution</b> |  |                                      |                                      |                       |  |   |                             |                                      |
|---|--|--------------------------------------|--------------------------------------|-----------------------|--|---|-----------------------------|--------------------------------------|
| <b>County</b>                                       | <b>Number<br/>Included in<br/>Analysis (3)</b> | <b>White, Not<br/>Hispanic<br/>%</b> | <b>Black, Not<br/>Hispanic<br/>%</b> | <b>Hispanic<br/>%</b> | <b>American<br/>Indian/Alaska<br/>Native<br/>%</b> | <b>Asian/Pacific<br/>Islander<br/>%</b> | <b>Multiple Races<br/>%</b> | <b>All Other /<br/>Unknown<br/>%</b> |
| Alcona  | 194  | 93.3                                 | 0.0                                  | 2.1                   | 0.0  | 0.0                                     | 4.6                         | 0.0                                  |
| Alger   | 199  | 79.4                                 | 0.0                                  | 0.5                   | 1.5  | 1.0                                     | 17.6                        | 0.0                                  |
| Allegan   | 6,346  | 53.7                                 | 2.7                                  | 37.6                  | 0.0  | 1.9                                     | 4.0                         | 0.1                                  |
| Alpena  | 777  | 91.5                                 | 0.0                                  | 2.1                   | 0.0  | 0.4                                     | 6.0                         | 0.0                                  |
| Antrim  | 559  | 93.0                                 | 0.0                                  | 4.3                   | 0.0  | 0.0                                     | 2.7                         | 0.0                                  |
| Arenac  | 541  | 91.1                                 | 0.0                                  | 3.5                   | 0.0  | 0.0                                     | 5.4                         | 0.0                                  |
| Baraga  | 288  | 45.5                                 | 0.0                                  | 1.7                   | 5.9  | 0.0                                     | 46.9                        | 0.0                                  |
| Barry   | 1,414  | 91.2                                 | 0.5                                  | 4.6                   | 0.1  | 0.4                                     | 3.2                         | 0.1                                  |
| Bay   | 2,733  | 70.8                                 | 1.5                                  | 16.3                  | 0.1  | 0.0                                     | 11.3                        | 0.0                                  |
| Benzie  | 476  | 81.5                                 | 0.2                                  | 10.9                  | 0.6  | 0.0                                     | 6.1                         | 0.6                                  |
| Berrien   | 4,025  | 45.0                                 | 40.4                                 | 5.9                   | 0.1  | 0.8                                     | 7.8                         | 0.0                                  |
| Branch  | 1,676  | 78.8                                 | 0.6                                  | 15.9                  | 0.1  | 0.6                                     | 3.9                         | 0.2                                  |
| Calhoun   | 4,387  | 55.7                                 | 17.9                                 | 10.7                  | 0.1  | 2.2                                     | 13.3                        | 0.1                                  |
| Cass  | 1,962  | 52.4                                 | 6.1                                  | 33.0                  | 0.3  | 0.4                                     | 7.1                         | 0.7                                  |
| Charlevoix  | 611  | 85.6                                 | 0.8                                  | 4.4                   | 0.3  | 0.2                                     | 8.7                         | 0.0                                  |
| Cheboygan   | 605  | 82.3                                 | 0.3                                  | 2.0                   | 0.2  | 0.0                                     | 15.0                        | 0.2                                  |
| Chippewa  | 1,120  | 46.7                                 | 0.6                                  | 3.1                   | 18.5   | 1.2                                     | 29.9                        | 0.0                                  |
| Clare   | 951  | 89.0                                 | 0.4                                  | 4.5                   | 0.0  | 0.3                                     | 5.8                         | 0.0                                  |
| Clinton   | 943  | 81.3                                 | 1.9                                  | 11.0                  | 0.2  | 0.2                                     | 5.3                         | 0.0                                  |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with errors.

\* Percentages are not calculated if < 100 records are available for analysis after exclusions.



**Table 4B**  
**2010 Pediatric Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**  
**Comparison of Racial and Ethnic Distribution by County**  
**Children Aged < 5 Years** <sup>(2)</sup>

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| <b>Comparison of Racial and Ethnic Distribution</b> |  |                                      |                                      |                       |  |   |                             |                                      |
|---|--|--------------------------------------|--------------------------------------|-----------------------|--|---|-----------------------------|--------------------------------------|
| <b>County</b>                                       | <b>Number<br/>Included in<br/>Analysis (3)</b> | <b>White, Not<br/>Hispanic<br/>%</b> | <b>Black, Not<br/>Hispanic<br/>%</b> | <b>Hispanic<br/>%</b> | <b>American<br/>Indian/Alaska<br/>Native<br/>%</b> | <b>Asian/Pacific<br/>Islander<br/>%</b> | <b>Multiple Races<br/>%</b> | <b>All Other /<br/>Unknown<br/>%</b> |
| Crawford  | 334  | 92.2                                 | 0.9                                  | 1.5                   | 0.0  | 0.0                                     | 5.4                         | 0.0                                  |
| Delta   | 1,030  | 83.9                                 | 0.2                                  | 2.0                   | 1.0  | 0.0                                     | 12.9                        | 0.0                                  |
| Dickinson   | 635  | 88.2                                 | 0.3                                  | 2.8                   | 0.0  | 0.3                                     | 8.2                         | 0.2                                  |
| Eaton   | 1,626  | 81.5                                 | 4.2                                  | 7.6                   | 0.0  | 0.4                                     | 6.0                         | 0.1                                  |
| Emmet   | 845  | 88.2                                 | 0.6                                  | 1.3                   | 1.9  | 0.8                                     | 7.2                         | 0.0                                  |
| Genesee   | 10,927   | 49.6                                 | 40.7                                 | 4.0                   | 0.1  | 0.2                                     | 5.4                         | 0.0                                  |
| Gladwin   | 700  | 97.7                                 | 0.1                                  | 1.1                   | 0.1  | 0.4                                     | 0.4                         | 0.0                                  |
| Gogebic   | 374  | 82.9                                 | 0.0                                  | 2.4                   | 4.8  | 0.0                                     | 9.9                         | 0.0                                  |
| Gr Travers  | 1,937  | 86.6                                 | 0.6                                  | 6.5                   | 0.2  | 0.2                                     | 6.0                         | 0.0                                  |
| Gratiot   | 1,221  | 79.0                                 | 0.1                                  | 18.1                  | 0.0  | 0.0                                     | 2.8                         | 0.0                                  |
| Hillsdale   | 1,282  | 92.4                                 | 0.1                                  | 3.7                   | 0.1  | 0.0                                     | 3.7                         | 0.0                                  |
| Houghton  | 884  | 92.3                                 | 0.5                                  | 1.0                   | 0.0  | 2.5                                     | 3.7                         | 0.0                                  |
| Huron   | 850  | 90.0                                 | 0.4                                  | 6.0                   | 0.2  | 0.4                                     | 3.1                         | 0.0                                  |
| Ingham  | 6,694  | 37.0                                 | 25.8                                 | 21.2                  | 0.0  | 3.7                                     | 12.2                        | 0.0                                  |
| Ionia   | 1,612  | 79.4                                 | 0.3                                  | 16.2                  | 0.1  | 0.1                                     | 4.0                         | 0.0                                  |
| Iosco   | 578  | 88.6                                 | 1.6                                  | 4.8                   | 0.2  | 0.3                                     | 4.5                         | 0.0                                  |
| Iron  | 334  | 88.9                                 | 0.0                                  | 4.5                   | 0.3  | 0.0                                     | 6.3                         | 0.0                                  |
| Isabella  | 1,462  | 85.2                                 | 3.4                                  | 3.8                   | 1.0  | 0.7                                     | 5.9                         | 0.0                                  |
| Jackson   | 4,741  | 64.6                                 | 12.0                                 | 9.3                   | 0.1  | 0.4                                     | 13.6                        | 0.0                                  |

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**Table 4B**  
**2010 Pediatric Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**  
**Comparison of Racial and Ethnic Distribution by County**  
**Children Aged < 5 Years** <sup>(2)</sup>

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| <b>Comparison of Racial and Ethnic Distribution</b> |  |                                      |                                      |                       |  |   |                             |                                      |
|---|--|--------------------------------------|--------------------------------------|-----------------------|--|---|-----------------------------|--------------------------------------|
| <b>County</b>                                       | <b>Number<br/>Included in<br/>Analysis (3)</b> | <b>White, Not<br/>Hispanic<br/>%</b> | <b>Black, Not<br/>Hispanic<br/>%</b> | <b>Hispanic<br/>%</b> | <b>American<br/>Indian/Alaska<br/>Native<br/>%</b> | <b>Asian/Pacific<br/>Islander<br/>%</b> | <b>Multiple Races<br/>%</b> | <b>All Other /<br/>Unknown<br/>%</b> |
| Kalamazoo   | 6,442  | 42.1                                 | 30.4                                 | 12.8                  | 0.1  | 1.0                                     | 13.6                        | 0.0                                  |
| Kalkaska  | 490  | 91.2                                 | 0.0                                  | 3.3                   | 0.0  | 0.2                                     | 5.1                         | 0.2                                  |
| Kent  | 19,378   | 34.4                                 | 19.0                                 | 36.5                  | 0.1  | 1.7                                     | 8.4                         | 0.0                                  |
| Lake  | 286  | 59.8                                 | 17.5                                 | 3.8                   | 0.3  | 0.0                                     | 18.5                        | 0.0                                  |
| Lapeer  | 2,127  | 72.0                                 | 0.5                                  | 20.6                  | 0.0  | 0.0                                     | 6.8                         | 0.0                                  |
| Leelanau  | 281  | 45.6                                 | 0.4                                  | 35.2                  | 8.9  | 0.4                                     | 9.3                         | 0.4                                  |
| Lenawee   | 2,114  | 67.9                                 | 0.7                                  | 24.1                  | 0.0  | 0.1                                     | 7.1                         | 0.0                                  |
| Livingston  | 1,771  | 90.9                                 | 0.7                                  | 4.5                   | 0.1  | 0.8                                     | 3.0                         | 0.0                                  |
| Luce  | 251  | 80.1                                 | 0.0                                  | 0.8                   | 2.0  | 0.0                                     | 17.1                        | 0.0                                  |
| Mackinac  | 220  | 45.0                                 | 0.9                                  | 4.1                   | 1.8  | 0.5                                     | 47.7                        | 0.0                                  |
| Macomb  | 12,055   | 59.9                                 | 19.7                                 | 6.9                   | 0.0  | 3.3                                     | 10.1                        | 0.0                                  |
| Manistee  | 515  | 71.8                                 | 0.0                                  | 11.7                  | 0.0  | 0.2                                     | 16.3                        | 0.0                                  |
| Marquette   | 1,245  | 83.4                                 | 1.0                                  | 3.2                   | 0.3  | 0.1                                     | 12.0                        | 0.0                                  |
| Mason   | 840  | 78.2                                 | 0.7                                  | 14.2                  | 0.1  | 0.6                                     | 6.2                         | 0.0                                  |
| Mecosta   | 1,138  | 85.2                                 | 3.5                                  | 2.8                   | 0.1  | 0.0                                     | 8.3                         | 0.1                                  |
| Menominee   | 439  | 76.1                                 | 0.0                                  | 3.4                   | 5.9  | 0.0                                     | 14.6                        | 0.0                                  |
| Midland   | 1,790  | 91.2                                 | 1.0                                  | 1.7                   | 0.0  | 0.6                                     | 5.5                         | 0.0                                  |
| Missaukee   | 269  | 86.6                                 | 0.0                                  | 11.2                  | 0.0  | 0.0                                     | 2.2                         | 0.0                                  |
| Monroe  | 3,155  | 79.0                                 | 4.4                                  | 7.9                   | 0.0  | 0.4                                     | 8.0                         | 0.2                                  |

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**2010 Pediatric Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**  
**Comparison of Racial and Ethnic Distribution by County**  
**Children Aged < 5 Years** <sup>(2)</sup>

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| <b>Comparison of Racial and Ethnic Distribution</b> |  |                                      |                                      |                       |  |   |                             |                                      |
|---|--|--------------------------------------|--------------------------------------|-----------------------|--|---|-----------------------------|--------------------------------------|
| <b>County</b>                                       | <b>Number<br/>Included in<br/>Analysis (3)</b> | <b>White, Not<br/>Hispanic<br/>%</b> | <b>Black, Not<br/>Hispanic<br/>%</b> | <b>Hispanic<br/>%</b> | <b>American<br/>Indian/Alaska<br/>Native<br/>%</b> | <b>Asian/Pacific<br/>Islander<br/>%</b> | <b>Multiple Races<br/>%</b> | <b>All Other /<br/>Unknown<br/>%</b> |
| Montcalm  | 1,732  | 88.6                                 | 0.3                                  | 7.0                   | 0.3  | 0.2                                     | 3.3                         | 0.2                                  |
| Montmorenc  | 231  | 96.1                                 | 0.0                                  | 2.2                   | 0.4  | 0.0                                     | 1.3                         | 0.0                                  |
| Muskegon  | 6,446  | 52.1                                 | 24.3                                 | 12.8                  | 0.1  | 0.2                                     | 10.4                        | 0.0                                  |
| Newaygo   | 1,828  | 74.3                                 | 0.2                                  | 21.0                  | 0.1  | 0.1                                     | 4.3                         | 0.1                                  |
| Oakland   | 15,958   | 45.0                                 | 33.3                                 | 13.8                  | 0.1  | 2.1                                     | 5.7                         | 0.0                                  |
| Oceana  | 1,160  | 45.7                                 | 0.2                                  | 51.2                  | 0.0  | 0.1                                     | 2.8                         | 0.1                                  |
| Ogemaw  | 570  | 91.4                                 | 0.4                                  | 3.2                   | 0.0  | 0.0                                     | 4.9                         | 0.2                                  |
| Ontonagon   | 133  | 91.7                                 | 0.0                                  | 5.3                   | 0.0  | 0.0                                     | 3.0                         | 0.0                                  |
| Osceola   | 749  | 92.9                                 | 0.9                                  | 2.0                   | 0.1  | 0.0                                     | 4.0                         | 0.0                                  |
| Oscoda  | 187  | 90.9                                 | 0.5                                  | 4.3                   | 0.0  | 0.0                                     | 4.3                         | 0.0                                  |
| Otsego  | 800  | 92.9                                 | 0.1                                  | 1.9                   | 0.1  | 0.0                                     | 5.0                         | 0.0                                  |
| Ottawa  | 2,391  | 85.2                                 | 1.5                                  | 7.6                   | 0.0  | 0.5                                     | 5.0                         | 0.2                                  |
| Presque Is  | 220  | 91.4                                 | 0.0                                  | 1.8                   | 0.0  | 0.0                                     | 6.8                         | 0.0                                  |
| Roscommon   | 543  | 94.8                                 | 0.0                                  | 0.7                   | 0.4  | 0.7                                     | 3.3                         | 0.0                                  |
| Saginaw   | 6,279  | 36.8                                 | 37.5                                 | 19.0                  | 0.0  | 0.5                                     | 6.2                         | 0.0                                  |
| Sanilac   | 1,070  | 87.7                                 | 0.0                                  | 8.0                   | 0.1  | 0.1                                     | 4.1                         | 0.0                                  |
| Schoolcraf  | 237  | 63.7                                 | 0.0                                  | 1.7                   | 4.6  | 0.0                                     | 30.0                        | 0.0                                  |
| Shiawassee  | 1,718  | 87.1                                 | 0.3                                  | 5.9                   | 0.0  | 0.1                                     | 6.4                         | 0.1                                  |
| St Clair  | 3,619  | 75.2                                 | 4.6                                  | 8.0                   | 0.1  | 0.2                                     | 11.9                        | 0.0                                  |

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**Michigan**  
**Comparison of Racial and Ethnic Distribution by County**  
**Children Aged < 5 Years** <sup>(2)</sup>

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| <b>Comparison of Racial and Ethnic Distribution</b> |  |                                      |                                      |                       |  |   |                             |                                      |
|---|--|--------------------------------------|--------------------------------------|-----------------------|--|---|-----------------------------|--------------------------------------|
| <b>County</b>                                       | <b>Number<br/>Included in<br/>Analysis (3)</b> | <b>White, Not<br/>Hispanic<br/>%</b> | <b>Black, Not<br/>Hispanic<br/>%</b> | <b>Hispanic<br/>%</b> | <b>American<br/>Indian/Alaska<br/>Native<br/>%</b> | <b>Asian/Pacific<br/>Islander<br/>%</b> | <b>Multiple Races<br/>%</b> | <b>All Other /<br/>Unknown<br/>%</b> |
| St Joseph   | 2,258  | 67.7                                 | 3.4                                  | 23.5                  | 0.0  | 0.1                                     | 5.3                         | 0.0                                  |
| Tuscola   | 1,525  | 87.6                                 | 0.9                                  | 7.5                   | 0.1  | 0.2                                     | 3.7                         | 0.0                                  |
| Van Buren   | 2,789  | 50.6                                 | 4.9                                  | 38.5                  | 0.1  | 0.0                                     | 5.6                         | 0.2                                  |
| Washtenaw   | 5,174  | 34.4                                 | 37.8                                 | 12.1                  | 0.5  | 3.5                                     | 11.7                        | 0.0                                  |
| Wayne   | 53,459   | 26.0                                 | 55.2                                 | 12.8                  | 0.1  | 2.6                                     | 3.3                         | 0.0                                  |
| Wexford   | 1,338  | 89.6                                 | 0.3                                  | 4.4                   | 0.1  | 0.4                                     | 5.1                         | 0.1                                  |
| Unknown Counties                                    | 207  | 33.8                                 | 23.7                                 | 10.6                  | 4.3  | 3.4                                     | 24.2                        | 0.0                                  |
| <b>Michigan</b>                                     | <b>235,300</b>                                 | <b>51.6</b>                          | <b>25.2</b>                          | <b>14.4</b>           | <b>0.2</b>   | <b>1.5</b>                              | <b>7.0</b>                  | <b>0.0</b>                           |
| <b>Nation<br/>(Prior Year)</b>                      | <b>8,938,527</b>                               | <b>31.8</b>                          | <b>18.7</b>                          | <b>40.6</b>           | <b>0.9</b>   | <b>2.6</b>                              | <b>2.5</b>                  | <b>3.0</b>                           |

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**Table 5B**  
**2010 Pediatric Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**  
**Comparison of Age Distribution by County**  
**Children Aged < 5 Years** <sup>(2)</sup>

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| <b>Comparison of Age Distribution</b> |  |                                 |                                  |                                  |
|---------------------------------------|--|---------------------------------|----------------------------------|----------------------------------|
| <b>County</b>                         | <b>Number<br/>Included in<br/>Analysis<br/>(3,4)</b> | <b>0 - 11 Months<br/><br/>%</b> | <b>12 - 23 Months<br/><br/>%</b> | <b>24 - 59 Months<br/><br/>%</b> |
| Alcona                                | 194  | 27.3                            | 26.8                             | 45.9                             |
| Alger                                 | 199  | 31.7                            | 21.6                             | 46.7                             |
| Allegan                               | 6,346  | 25.0                            | 24.3                             | 50.8                             |
| Alpena                                | 777  | 32.6                            | 19.6                             | 47.9                             |
| Antrim                                | 559  | 31.1                            | 18.4                             | 50.4                             |
| Arenac                                | 541  | 23.8                            | 21.4                             | 54.7                             |
| Baraga                                | 288  | 28.5                            | 21.2                             | 50.3                             |
| Barry                                 | 1,414  | 27.8                            | 21.4                             | 50.8                             |
| Bay                                   | 2,733  | 31.5                            | 21.4                             | 47.0                             |
| Benzie                                | 476  | 29.4                            | 20.2                             | 50.4                             |
| Berrien                               | 4,025  | 30.2                            | 23.2                             | 46.7                             |
| Branch                                | 1,676  | 31.0                            | 20.5                             | 48.4                             |
| Calhoun                               | 4,387  | 31.5                            | 21.0                             | 47.5                             |
| Cass                                  | 1,962  | 27.3                            | 21.9                             | 50.8                             |
| Charlevoix                            | 611  | 31.9                            | 17.3                             | 50.7                             |
| Cheboygan                             | 605  | 31.1                            | 18.5                             | 50.4                             |
| Chippewa                              | 1,120  | 30.4                            | 21.6                             | 47.9                             |
| Clare                                 | 951  | 27.8                            | 23.2                             | 49.0                             |

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(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Records rejected if date of birth and date of visit unknown.

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| <b>Comparison of Age Distribution</b> |  |                                 |                                  |                                  |
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| <b>County</b>                         | <b>Number<br/>Included in<br/>Analysis<br/>(3,4)</b> | <b>0 - 11 Months<br/><br/>%</b> | <b>12 - 23 Months<br/><br/>%</b> | <b>24 - 59 Months<br/><br/>%</b> |
| Clinton                               | 943  | 33.4                            | 20.4                             | 46.2                             |
| Crawford                              | 334  | 25.7                            | 29.0                             | 45.2                             |
| Delta                                 | 1,030  | 30.7                            | 21.0                             | 48.3                             |
| Dickinson                             | 635  | 27.1                            | 22.5                             | 50.4                             |
| Eaton                                 | 1,626  | 31.7                            | 23.2                             | 45.0                             |
| Emmet                                 | 845  | 32.1                            | 17.8                             | 50.2                             |
| Genesee                               | 10,927   | 36.7                            | 20.6                             | 42.7                             |
| Gladwin                               | 700  | 25.9                            | 22.4                             | 51.7                             |
| Gogebic                               | 374  | 32.1                            | 18.2                             | 49.7                             |
| Gr Travers                            | 1,937  | 29.7                            | 21.5                             | 48.8                             |
| Gratiot                               | 1,221  | 30.0                            | 21.0                             | 49.1                             |
| Hillsdale                             | 1,282  | 32.5                            | 17.9                             | 49.6                             |
| Houghton                              | 884  | 31.4                            | 18.8                             | 49.8                             |
| Huron                                 | 850  | 36.1                            | 17.6                             | 46.2                             |
| Ingham                                | 6,694  | 33.1                            | 21.7                             | 45.2                             |
| Ionia                                 | 1,612  | 26.1                            | 23.9                             | 50.0                             |
| Iosco                                 | 578  | 36.3                            | 17.6                             | 46.0                             |
| Iron                                  | 334  | 28.1                            | 26.3                             | 45.5                             |

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| <b>Comparison of Age Distribution</b> |  |                                 |                                  |                                  |
|---------------------------------------|--|---------------------------------|----------------------------------|----------------------------------|
| <b>County</b>                         | <b>Number<br/>Included in<br/>Analysis<br/>(3,4)</b> | <b>0 - 11 Months<br/><br/>%</b> | <b>12 - 23 Months<br/><br/>%</b> | <b>24 - 59 Months<br/><br/>%</b> |
| Isabella                              | 1,462  | 30.2                            | 24.0                             | 45.8                             |
| Jackson                               | 4,741  | 30.0                            | 22.4                             | 47.6                             |
| Kalamazoo                             | 6,442  | 31.9                            | 20.0                             | 48.1                             |
| Kalkaska                              | 490  | 24.3                            | 26.5                             | 49.2                             |
| Kent                                  | 19,378   | 30.4                            | 21.1                             | 48.5                             |
| Lake                                  | 286  | 19.2                            | 27.3                             | 53.5                             |
| Lapeer                                | 2,127  | 29.0                            | 23.3                             | 47.7                             |
| Leelanau                              | 281  | 26.3                            | 23.1                             | 50.5                             |
| Lenawee                               | 2,114  | 35.5                            | 21.8                             | 42.7                             |
| Livingston                            | 1,771  | 28.2                            | 26.2                             | 45.6                             |
| Luce                                  | 251  | 29.1                            | 23.1                             | 47.8                             |
| Mackinac                              | 220  | 21.8                            | 19.5                             | 58.6                             |
| Macomb                                | 12,055   | 35.2                            | 24.9                             | 40.0                             |
| Manistee                              | 515  | 27.6                            | 22.1                             | 50.3                             |
| Marquette                             | 1,245  | 30.4                            | 24.4                             | 45.2                             |
| Mason                                 | 840  | 27.0                            | 25.7                             | 47.3                             |
| Mecosta                               | 1,138  | 31.9                            | 21.7                             | 46.4                             |
| Menominee                             | 439  | 34.2                            | 19.6                             | 46.2                             |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Records rejected if date of birth and date of visit unknown.

\* Percentages are not calculated if < 100 records are available for analysis after exclusions.



**Table 5B**  
**2010 Pediatric Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**  
**Comparison of Age Distribution by County**  
**Children Aged < 5 Years** <sup>(2)</sup>

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| <b>Comparison of Age Distribution</b> |  |                                 |                                  |                                  |
|---------------------------------------|--|---------------------------------|----------------------------------|----------------------------------|
| <b>County</b>                         | <b>Number<br/>Included in<br/>Analysis<br/>(3,4)</b> | <b>0 - 11 Months<br/><br/>%</b> | <b>12 - 23 Months<br/><br/>%</b> | <b>24 - 59 Months<br/><br/>%</b> |
| Midland                               | 1,790  | 27.7                            | 24.5                             | 47.8                             |
| Missaukee                             | 269  | 28.6                            | 22.3                             | 49.1                             |
| Monroe                                | 3,155  | 33.8                            | 22.3                             | 43.9                             |
| Montcalm                              | 1,732  | 32.3                            | 20.6                             | 47.1                             |
| Montmorenc                            | 231  | 25.1                            | 17.7                             | 57.1                             |
| Muskegon                              | 6,446  | 29.1                            | 22.4                             | 48.5                             |
| Newaygo                               | 1,828  | 24.7                            | 21.7                             | 53.7                             |
| Oakland                               | 15,958   | 37.3                            | 19.9                             | 42.7                             |
| Oceana                                | 1,160  | 27.8                            | 20.4                             | 51.7                             |
| Ogemaw                                | 570  | 31.8                            | 18.9                             | 49.3                             |
| Ontonagon                             | 133  | 24.8                            | 16.5                             | 58.6                             |
| Osceola                               | 749  | 28.2                            | 21.2                             | 50.6                             |
| Oscoda                                | 187  | 36.4                            | 21.4                             | 42.2                             |
| Otsego                                | 800  | 30.1                            | 22.3                             | 47.6                             |
| Ottawa                                | 2,391  | 24.1                            | 23.3                             | 52.7                             |
| Presque Is                            | 220  | 27.7                            | 18.2                             | 54.1                             |
| Roscommon                             | 543  | 27.8                            | 25.6                             | 46.6                             |
| Saginaw                               | 6,279  | 31.1                            | 20.3                             | 48.7                             |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Records rejected if date of birth and date of visit unknown.

\* Percentages are not calculated if < 100 records are available for analysis after exclusions.



**Table 5B**  
**2010 Pediatric Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**  
**Comparison of Age Distribution by County**  
**Children Aged < 5 Years** <sup>(2)</sup>

Page: 10  
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| <b>Comparison of Age Distribution</b> |  |                                 |                                  |                                  |
|---------------------------------------|--|---------------------------------|----------------------------------|----------------------------------|
| <b>County</b>                         | <b>Number<br/>Included in<br/>Analysis<br/>(3,4)</b> | <b>0 - 11 Months<br/><br/>%</b> | <b>12 - 23 Months<br/><br/>%</b> | <b>24 - 59 Months<br/><br/>%</b> |
| Sanilac                               | 1,070  | 33.0                            | 22.1                             | 45.0                             |
| Schoolcraft                           | 237  | 29.1                            | 22.8                             | 48.1                             |
| Shiawassee                            | 1,718  | 24.9                            | 23.1                             | 52.0                             |
| St Clair                              | 3,619  | 31.1                            | 22.9                             | 46.1                             |
| St Joseph                             | 2,258  | 29.5                            | 21.6                             | 48.9                             |
| Tuscola                               | 1,525  | 27.3                            | 21.8                             | 50.9                             |
| Van Buren                             | 2,789  | 28.9                            | 20.8                             | 50.4                             |
| Washtenaw                             | 5,174  | 34.7                            | 21.2                             | 44.1                             |
| Wayne                                 | 53,459   | 35.8                            | 21.5                             | 42.8                             |
| Wexford                               | 1,338  | 31.2                            | 21.4                             | 47.4                             |
| Unknown Counties                      | 207  | 28.0                            | 18.4                             | 53.6                             |
| <b>Michigan</b>                       | <b>235,300</b>                                       | <b>32.5</b>                     | <b>21.7</b>                      | <b>45.9</b>                      |
| <b>Nation<br/>(Prior Year)</b>        | <b>8,938,527</b>                                     | <b>34.5</b>                     | <b>22.6</b>                      | <b>42.9</b>                      |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Records rejected if date of birth and date of visit unknown.

\* Percentages are not calculated if < 100 records are available for analysis after exclusions.



**Table 6B**  
**2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| Comparison of Growth and Anemia Indicators (3,4) |                 |                        |                        |                         |                     |                         |                      |                                |                      |                      |                             |        |             |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|-------------------------|----------------------|--------------------------------|----------------------|----------------------|-----------------------------|--------|-------------|
| County   | Birthweight (5) |                        |                        | Height and Weight       |                     |                         |                      |                                |                      |                      | Anemia<br>Low Hb/Hct<br>(8) |        |             |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     | Under-<br>weight<br>(7) | Obese<br>(7)         | ≥ 2 Yrs<br>Over-<br>weight (7) |                      |                      |                             |        |             |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                         | %<br>85th-<br>(Rank) | %<br><95th<br>(Rank) | %<br>≥95th<br>(Rank)        | Number | %<br>(Rank) |
| Alcona   | 28              | * *                    | * *                    | 192                     | 5.7 (60)            | 5.2 (75)                | 8.9 (5)              | 88                             | * *                  | * *                  |                             | 132    | 15.9 (71)   |
| Alger  | 34              | * *                    | * *                    | 199                     | 3.5 (9)             | 0.5 (1)                 | 15.6 (74)            | 94                             | * *                  | * *                  |                             | 114    | 4.4 (11)    |
| Allegan  | 1,047           | 7.9 (32)               | 7.9 (25)               | 6,225                   | 3.5 (9)             | 3.5 (50)                | 11.9 (28)            | 3,167                          | 17.0 (39)            | 14.1 (41)            |                             | 3,985  | 20.1 (75)   |
| Alpena   | 151             | 8.6 (40)               | 13.9 (54)              | 772                     | 4.4 (23)            | 2.5 (20)                | 12.6 (36)            | 367                            | 14.2 (10)            | 16.3 (67)            |                             | 413    | 4.4 (11)    |
| Antrim   | 90              | * *                    | * *                    | 549                     | 4.9 (40)            | 5.5 (76)                | 12.9 (46)            | 281                            | 16.0 (29)            | 11.0 (9)             |                             | 343    | 8.2 (35)    |
| Arenac   | 77              | * *                    | * *                    | 531                     | 7.7 (80)            | 2.8 (33)                | 12.4 (35)            | 289                            | 17.6 (47)            | 13.1 (26)            |                             | 317    | 4.4 (11)    |
| Baraga   | 50              | * *                    | * *                    | 283                     | 4.2 (18)            | 2.8 (33)                | 17.0 (82)            | 145                            | 17.2 (44)            | 19.3 (76)            |                             | 147    | 7.5 (31)    |
| Barry  | 237             | 5.5 (5)                | 10.5 (48)              | 1,375                   | 4.1 (15)            | 3.8 (60)                | 10.2 (9)             | 717                            | 17.0 (39)            | 10.3 (7)             |                             | 800    | 5.4 (18)    |
| Bay  | 513             | 7.8 (29)               | 8.8 (32)               | 2,707                   | 5.5 (54)            | 2.7 (27)                | 11.9 (28)            | 1,256                          | 16.5 (32)            | 13.8 (33)            |                             | 1,648  | 15.2 (67)   |
| Benzie   | 79              | * *                    | * *                    | 463                     | 5.4 (51)            | 5.8 (80)                | 14.5 (64)            | 228                            | 15.4 (19)            | 14.0 (39)            |                             | 298    | 5.7 (20)    |
| Berrien  | 790             | 9.1 (45)               | 8.0 (27)               | 3,962                   | 5.5 (54)            | 1.8 (7)                 | 12.8 (44)            | 1,848                          | 17.5 (46)            | 13.8 (33)            |                             | 2,377  | 10.6 (46)   |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 6B**  
**2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| Comparison of Growth and Anemia Indicators |                 |                        |                        |                         |                     |                     |                         |              |                                |                            |                             | (3,4)  |             |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|---------------------|-------------------------|--------------|--------------------------------|----------------------------|-----------------------------|--------|-------------|
| County                                     | Birthweight (5) |                        |                        | Height and Weight       |                     |                     |                         |              |                                |                            | Anemia<br>Low Hb/Hct<br>(8) |        |             |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     |                     | Under-<br>weight<br>(7) | Obese<br>(7) | ≥ 2 Yrs<br>Over-<br>weight (7) |                            |                             |        |             |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank) | %<br>≥95th<br>(Rank)    |              | Number                         | %<br>85th- <95th<br>(Rank) | %<br>≥95th<br>(Rank)        | Number | %<br>(Rank) |
| Branch                                     | 269             | 6.7 (18)               | 8.6 (30)               | 1,654                   | 5.3 (49)            | 2.8 (33)            | 14.2 (61)               |              | 808                            | 16.8 (35)                  | 13.7 (31)                   | 989    | 3.8 (6)     |
| Calhoun                                    | 801             | 7.2 (24)               | 7.2 (18)               | 4,328                   | 5.6 (59)            | 2.7 (27)            | 15.8 (75)               |              | 2,046                          | 18.3 (58)                  | 15.0 (57)                   | 2,599  | 16.2 (72)   |
| Cass                                       | 280             | 6.8 (20)               | 9.6 (42)               | 1,936                   | 4.5 (25)            | 3.6 (53)            | 13.3 (52)               |              | 986                            | 13.0 (3)                   | 12.9 (23)                   | 1,229  | 33.0 (82)   |
| Charlevoix                                 | 98              | * *                    | * *                    | 597                     | 5.7 (60)            | 5.0 (73)            | 10.9 (18)               |              | 306                            | 15.4 (19)                  | 11.1 (10)                   | 370    | 5.1 (16)    |
| Cheboygan                                  | 97              | * *                    | * *                    | 596                     | 3.2 (5)             | 3.2 (43)            | 12.6 (36)               |              | 303                            | 13.5 (7)                   | 14.9 (56)                   | 322    | 9.0 (40)    |
| Chippewa                                   | 182             | 3.3 (1)                | 11.5 (51)              | 1,109                   | 4.6 (29)            | 4.0 (64)            | 14.9 (69)               |              | 525                            | 16.6 (33)                  | 16.0 (65)                   | 685    | 6.6 (29)    |
| Clare                                      | 180             | 7.8 (29)               | 5.0 (3)                | 938                     | 6.0 (65)            | 4.1 (65)            | 11.4 (23)               |              | 456                            | 14.9 (15)                  | 14.5 (50)                   | 580    | 8.8 (38)    |
| Clinton                                    | 154             | 7.8 (29)               | 9.1 (37)               | 930                     | 5.4 (51)            | 2.5 (20)            | 13.7 (58)               |              | 435                            | 14.9 (15)                  | 14.0 (39)                   | 571    | 4.9 (15)    |
| Crawford                                   | 56              | * *                    | * *                    | 329                     | 4.6 (29)            | 1.5 (3)             | 12.2 (33)               |              | 152                            | 23.0 (75)                  | 15.1 (58)                   | 225    | 14.2 (64)   |
| Delta                                      | 142             | 5.6 (6)                | 10.6 (49)              | 1,021                   | 5.2 (47)            | 2.8 (33)            | 12.6 (36)               |              | 491                            | 15.9 (27)                  | 15.5 (62)                   | 639    | 2.5 (4)     |
| Dickinson                                  | 114             | 7.0 (21)               | 7.9 (25)               | 630                     | 4.8 (36)            | 2.2 (11)            | 13.2 (49)               |              | 320                            | 15.9 (27)                  | 14.7 (53)                   | 373    | 7.8 (33)    |

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(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 6B**  
**2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

| Comparison of Growth and Anemia Indicators (3,4) |                 |                        |                        |                         |                     |                         |                      |                                |                            |                      |                             |             |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|-------------------------|----------------------|--------------------------------|----------------------------|----------------------|-----------------------------|-------------|
| County   | Birthweight (5) |                        |                        | Height and Weight       |                     |                         |                      |                                |                            |                      | Anemia<br>Low Hb/Hct<br>(8) |             |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     | Under-<br>weight<br>(7) | Obese<br>(7)         | ≥ 2 Yrs<br>Over-<br>weight (7) |                            |                      |                             |             |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                         | %<br>85th- <95th<br>(Rank) | %<br>≥95th<br>(Rank) | Number                      | %<br>(Rank) |
| Eaton  | 304             | 4.3 (2)                | 5.6 (4)                | 1,602                   | 4.5 (25)            | 3.6 (53)                | 11.9 (28)            | 714                            | 19.5 (64)                  | 14.7 (53)            | 926                         | 6.3 (24)    |
| Emmet  | 134             | 6.7 (18)               | 10.4 (47)              | 833                     | 4.7 (34)            | 2.3 (13)                | 14.2 (61)            | 416                            | 20.0 (68)                  | 15.9 (64)            | 507                         | 4.5 (14)    |
| Genesee  | 2,202           | 10.4 (55)              | 4.9 (2)                | 10,733                  | 5.0 (41)            | 3.7 (56)                | 13.2 (49)            | 4,595                          | 15.7 (24)                  | 13.2 (27)            | 6,306                       | 15.7 (69)   |
| Gladwin  | 119             | 10.1 (54)              | 9.2 (38)               | 693                     | 5.5 (54)            | 2.7 (27)                | 12.3 (34)            | 358                            | 19.8 (67)                  | 12.8 (21)            | 415                         | 12.3 (54)   |
| Gogebic  | 68              | * *                    | * *                    | 370                     | 4.6 (29)            | 1.6 (6)                 | 12.7 (42)            | 189                            | 19.6 (65)                  | 14.3 (44)            | 188                         | 4.3 (9)     |
| Gr Travers                                       | 376             | 6.4 (13)               | 8.8 (32)               | 1,899                   | 5.2 (47)            | 6.6 (81)                | 10.5 (12)            | 931                            | 17.1 (41)                  | 11.8 (15)            | 1,088                       | 11.0 (51)   |
| Gratiot  | 170             | 7.6 (28)               | 7.6 (23)               | 1,198                   | 6.7 (75)            | 3.3 (45)                | 13.5 (53)            | 581                            | 12.6 (2)                   | 14.5 (50)            | 710                         | 5.6 (19)    |
| Hillsdale  | 214             | 7.0 (21)               | 12.6 (52)              | 1,275                   | 6.0 (65)            | 2.0 (10)                | 11.6 (24)            | 626                            | 17.7 (48)                  | 14.2 (43)            | 784                         | 2.2 (3)     |
| Houghton   | 149             | 8.7 (42)               | 10.1 (45)              | 877                     | 6.0 (65)            | 2.3 (13)                | 10.6 (13)            | 436                            | 13.1 (4)                   | 10.3 (7)             | 475                         | 6.3 (24)    |
| Huron  | 175             | 9.7 (51)               | 9.7 (43)               | 838                     | 4.5 (25)            | 4.4 (68)                | 13.2 (49)            | 386                            | 15.5 (23)                  | 12.2 (19)            | 416                         | 13.5 (60)   |
| Ingham   | 1,273           | 8.1 (33)               | 7.3 (19)               | 6,611                   | 4.7 (34)            | 3.9 (62)                | 13.7 (58)            | 2,976                          | 16.1 (30)                  | 14.4 (48)            | 4,017                       | 11.3 (53)   |

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(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

**Table 6B**  
**2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

Page: 14  
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| Comparison of Growth and Anemia Indicators (3,4) |                 |                        |                        |                         |                     |                     |                         |              |                                |                      |                             |             |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|---------------------|-------------------------|--------------|--------------------------------|----------------------|-----------------------------|-------------|
| County   | Birthweight (5) |                        |                        | Height and Weight       |                     |                     |                         |              |                                |                      | Anemia<br>Low Hb/Hct<br>(8) |             |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     |                     | Under-<br>weight<br>(7) | Obese<br>(7) | ≥ 2 Yrs<br>Over-<br>weight (7) |                      |                             |             |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank) | %<br>≥95th<br>(Rank)    | Number       | %<br>85th- <95th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                      | %<br>(Rank) |
| Ionia  | 297             | 5.1 (4)                | 6.1 (8)                | 1,589                   | 5.1 (44)            | 3.7 (56)            | 10.6 (13)               | 785          | 23.9 (76)                      | 11.1 (10)            | 1,063                       | 9.6 (44)    |
| Iosco  | 107             | 5.6 (6)                | 15.9 (55)              | 573                     | 6.5 (72)            | 4.5 (69)            | 15.4 (73)               | 266          | 17.3 (45)                      | 18.0 (73)            | 312                         | 14.4 (65)   |
| Iron   | 53              | * *                    | * *                    | 330                     | 3.6 (12)            | 2.7 (27)            | 16.1 (77)               | 151          | 20.5 (69)                      | 21.2 (78)            | 216                         | 4.2 (8)     |
| Isabella   | 254             | 8.3 (37)               | 8.7 (31)               | 1,439                   | 6.2 (69)            | 2.8 (33)            | 13.6 (57)               | 656          | 18.1 (56)                      | 17.8 (72)            | 846                         | 6.1 (23)    |
| Jackson  | 872             | 8.6 (40)               | 8.9 (34)               | 4,616                   | 4.3 (21)            | 5.1 (74)            | 10.8 (17)               | 2,176        | 17.1 (41)                      | 14.3 (44)            | 1,938                       | 10.9 (50)   |
| Kalamazoo  | 1,175           | 10.0 (53)              | 6.4 (13)               | 6,346                   | 4.3 (21)            | 4.9 (72)            | 13.1 (48)               | 3,046        | 16.9 (38)                      | 14.1 (41)            | 3,855                       | 26.6 (81)   |
| Kalkaska   | 77              | * *                    | * *                    | 482                     | 7.5 (79)            | 3.3 (45)            | 9.1 (6)                 | 235          | 13.2 (6)                       | 11.5 (13)            | 300                         | 9.0 (40)    |
| Kent   | 3,214           | 8.1 (33)               | 7.4 (20)               | 19,121                  | 5.7 (60)            | 2.3 (13)            | 12.9 (46)               | 9,263        | 16.6 (33)                      | 13.9 (35)            | 11,804                      | 13.1 (59)   |
| Lake   | 33              | * *                    | * *                    | 275                     | 6.2 (69)            | 1.5 (3)             | 13.5 (53)               | 148          | 26.4 (77)                      | 12.8 (21)            | 191                         | 13.6 (61)   |
| Lapeer   | 367             | 7.1 (23)               | 8.2 (29)               | 2,090                   | 5.4 (51)            | 3.4 (47)            | 14.4 (63)               | 996          | 18.2 (57)                      | 17.2 (68)            | 1,315                       | 9.0 (40)    |
| Leelanau   | 47              | * *                    | * *                    | 271                     | 4.1 (15)            | 3.7 (56)            | 15.1 (70)               | 141          | 20.6 (70)                      | 12.1 (17)            | 171                         | 8.2 (35)    |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

**Table 6B**  
**2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

| Comparison of Growth and Anemia Indicators |                 |                        |                        |                         |                     |                     |                         |              |                                |                            |                             | (3,4)  |             |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|---------------------|-------------------------|--------------|--------------------------------|----------------------------|-----------------------------|--------|-------------|
| County                                     | Birthweight (5) |                        |                        | Height and Weight       |                     |                     |                         |              |                                |                            | Anemia<br>Low Hb/Hct<br>(8) |        |             |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     |                     | Under-<br>weight<br>(7) | Obese<br>(7) | ≥ 2 Yrs<br>Over-<br>weight (7) |                            |                             |        |             |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank) | %<br>≥95th<br>(Rank)    |              | Number                         | %<br>85th- <95th<br>(Rank) | %<br>≥95th<br>(Rank)        | Number | %<br>(Rank) |
| Lenawee                                    | 406             | 8.1 (33)               | 6.2 (10)               | 2,080                   | 4.6 (29)            | 3.8 (60)            | 12.6 (36)               |              | 897                            | 17.7 (48)                  | 13.9 (35)                   | 1,036  | 7.0 (30)    |
| Livingston                                 | 385             | 6.0 (11)               | 9.4 (41)               | 1,758                   | 4.2 (18)            | 3.1 (40)            | 10.6 (13)               |              | 802                            | 18.8 (60)                  | 15.1 (58)                   | 1,063  | 6.4 (26)    |
| Luce                                       | 49              | * *                    | * *                    | 245                     | 2.9 (3)             | 5.7 (79)            | 13.5 (53)               |              | 115                            | 14.8 (14)                  | 18.3 (74)                   | 157    | 8.9 (39)    |
| Mackinac                                   | 36              | * *                    | * *                    | 212                     | 2.8 (2)             | 1.9 (8)             | 14.6 (66)               |              | 119                            | 29.4 (78)                  | 17.6 (70)                   | 136    | 5.9 (22)    |
| Macomb                                     | 2,624           | 9.6 (49)               | 5.7 (6)                | 11,690                  | 4.8 (36)            | 3.5 (50)            | 12.7 (42)               |              | 4,734                          | 15.8 (25)                  | 12.9 (23)                   | 6,969  | 15.1 (66)   |
| Manistee                                   | 83              | * *                    | * *                    | 493                     | 6.5 (72)            | 3.0 (39)            | 15.8 (75)               |              | 245                            | 19.6 (65)                  | 19.6 (77)                   | 314    | 10.8 (48)   |
| Marquette                                  | 226             | 6.6 (16)               | 7.5 (21)               | 1,186                   | 5.1 (44)            | 3.1 (40)            | 14.5 (64)               |              | 537                            | 17.7 (48)                  | 16.0 (65)                   | 585    | 12.6 (56)   |
| Mason                                      | 147             | 8.8 (43)               | 6.1 (8)                | 818                     | 7.3 (78)            | 2.4 (17)            | 11.7 (26)               |              | 381                            | 21.8 (73)                  | 13.9 (35)                   | 499    | 15.6 (68)   |
| Mecosta                                    | 205             | 5.9 (10)               | 13.7 (53)              | 1,127                   | 3.3 (6)             | 2.9 (38)            | 11.3 (22)               |              | 524                            | 21.0 (71)                  | 12.2 (19)                   | 660    | 10.6 (46)   |
| Menominee                                  | 76              | * *                    | * *                    | 436                     | 5.0 (41)            | 2.5 (20)            | 13.5 (53)               |              | 198                            | 17.7 (48)                  | 13.6 (30)                   | 264    | 5.7 (20)    |
| Midland                                    | 359             | 8.4 (38)               | 8.9 (34)               | 1,766                   | 7.7 (80)            | 2.5 (20)            | 16.3 (79)               |              | 842                            | 15.4 (19)                  | 14.5 (50)                   | 962    | 8.6 (37)    |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

**Table 6B**  
**2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| Comparison of Growth and Anemia Indicators |                 |                        |                        |                         |                     |                         |                      |                                |                            |                      |                             | (3,4)       |  |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|-------------------------|----------------------|--------------------------------|----------------------------|----------------------|-----------------------------|-------------|--|
| County                                     | Birthweight (5) |                        |                        | Height and Weight       |                     |                         |                      |                                |                            |                      | Anemia<br>Low Hb/Hct<br>(8) |             |  |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     | Under-<br>weight<br>(7) | Obese<br>(7)         | ≥ 2 Yrs<br>Over-<br>weight (7) |                            |                      |                             |             |  |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                         | %<br>85th- <95th<br>(Rank) | %<br>≥95th<br>(Rank) | Number                      | %<br>(Rank) |  |
| Missaukee                                  | 45              | * *                    | * *                    | 266                     | 3.4 (7)             | 1.1 (2)                 | 7.9 (3)              | 129                            | 17.1 (41)                  | 7.0 (2)              | 168                         | 12.5 (55)   |  |
| Monroe                                     | 596             | 9.2 (46)               | 7.6 (23)               | 3,123                   | 7.1 (77)            | 2.3 (13)                | 12.0 (31)            | 1,371                          | 17.9 (54)                  | 13.3 (28)            | 1,858                       | 7.7 (32)    |  |
| Montcalm                                   | 325             | 7.4 (26)               | 6.2 (10)               | 1,705                   | 5.9 (64)            | 3.5 (50)                | 12.6 (36)            | 789                            | 15.8 (25)                  | 14.3 (44)            | 1,038                       | 4.1 (7)     |  |
| Montmorenc                                 | 37              | * *                    | * *                    | 228                     | 4.4 (23)            | 2.6 (25)                | 16.2 (78)            | 130                            | 19.2 (63)                  | 18.5 (75)            | 125                         | 1.6 (2)     |  |
| Muskegon                                   | 1,192           | 8.4 (38)               | 6.9 (15)               | 6,316                   | 3.5 (9)             | 3.9 (62)                | 10.9 (18)            | 3,082                          | 16.8 (35)                  | 11.4 (12)            | 3,849                       | 22.4 (78)   |  |
| Newaygo                                    | 269             | 5.6 (6)                | 10.0 (44)              | 1,793                   | 5.0 (41)            | 2.7 (27)                | 14.6 (66)            | 969                            | 19.0 (61)                  | 15.3 (60)            | 1,124                       | 12.8 (58)   |  |
| Oakland                                    | 3,229           | 9.6 (49)               | 6.8 (14)               | 15,730                  | 5.5 (54)            | 3.2 (43)                | 10.9 (18)            | 6,702                          | 15.2 (17)                  | 13.0 (25)            | 9,299                       | 14.1 (63)   |  |
| Oceana                                     | 189             | 9.0 (44)               | 11.1 (50)              | 1,133                   | 5.7 (60)            | 3.4 (47)                | 15.3 (72)            | 588                            | 22.4 (74)                  | 17.2 (68)            | 730                         | 14.0 (62)   |  |
| Ogemaw                                     | 91              | * *                    | * *                    | 564                     | 6.0 (65)            | 2.7 (27)                | 15.2 (71)            | 273                            | 19.0 (61)                  | 17.6 (70)            | 337                         | 10.1 (45)   |  |
| Ontonagon                                  | 17              | * *                    | * *                    | 133                     | 8.3 (82)            | 1.5 (3)                 | 16.5 (80)            | 81                             | * *                        | * *                  | 81                          | * *         |  |
| Osceola                                    | 123             | 6.5 (14)               | 16.3 (56)              | 731                     | 4.2 (18)            | 2.2 (11)                | 9.8 (8)              | 372                            | 16.4 (31)                  | 13.4 (29)            | 492                         | 18.5 (73)   |  |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

**Table 6B**  
**2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| <b>Comparison of Growth and Anemia Indicators</b> (3,4) |                 |                        |                        |                         |                         |                     |                      |                                |                            |                             |                    |
|---|-----------------|------------------------|------------------------|-------------------------|-------------------------|---------------------|----------------------|--------------------------------|----------------------------|-----------------------------|--------------------|
| <b>County</b>   | Birthweight (5) |                        |                        | Height and Weight       |                         |                     |                      |                                |                            | Anemia<br>Low Hb/Hct<br>(8) |                    |
|   | Low             | High                   |                        | Short<br>Stature<br>(6) | Under-<br>weight<br>(7) | Obese<br>(7)        |                      | ≥ 2 Yrs<br>Over-<br>weight (7) |                            |                             |                    |
|   | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank)     | %<br><5th<br>(Rank) | %<br>≥95th<br>(Rank) | Number                         | %<br>85th- <95th<br>(Rank) | %<br>≥95th<br>(Rank)        | Number %<br>(Rank) |
| Oscoda  | 35              | * *                    | * *                    | 187                     | 4.8 (36)                | 4.3 (67)            | 12.8 (44)            | 78                             | * *                        | * *                         | 103 7.8 (33)       |
| Otsego  | 140             | 5.7 (9)                | 9.3 (39)               | 788                     | 4.1 (15)                | 2.4 (17)            | 12.6 (36)            | 373                            | 17.7 (48)                  | 13.7 (31)                   | 454 5.3 (17)       |
| Ottawa  | 387             | 6.5 (14)               | 10.1 (45)              | 2,352                   | 3.1 (4)                 | 3.7 (56)            | 9.5 (7)              | 1,234                          | 15.2 (17)                  | 9.8 (5)                     | 1,442 23.8 (80)    |
| Presque Is  | 37              | * *                    | * *                    | 218                     | 3.7 (13)                | 5.5 (76)            | 11.0 (21)            | 118                            | 13.6 (8)                   | 15.3 (60)                   | 126 12.7 (57)      |
| Roscommon   | 94              | * *                    | * *                    | 534                     | 6.7 (75)                | 1.9 (8)             | 11.8 (27)            | 243                            | 14.4 (12)                  | 11.9 (16)                   | 328 4.3 (9)        |
| Saginaw   | 1,096           | 9.2 (46)               | 7.5 (21)               | 6,153                   | 4.6 (29)                | 3.4 (47)            | 13.8 (60)            | 2,999                          | 17.7 (48)                  | 14.4 (48)                   | 3,842 11.1 (52)    |
| Sanilac   | 197             | 6.6 (16)               | 5.6 (4)                | 1,062                   | 3.4 (7)                 | 5.5 (76)            | 6.4 (2)              | 474                            | 10.8 (1)                   | 8.2 (3)                     | 678 3.2 (5)        |
| Schoolcraf  | 40              | * *                    | * *                    | 232                     | 2.6 (1)                 | 11.6 (83)           | 4.7 (1)              | 107                            | 13.1 (4)                   | 3.7 (1)                     | 141 6.4 (26)       |
| Shiawassee  | 320             | 7.2 (24)               | 6.3 (12)               | 1,673                   | 3.8 (14)                | 6.8 (82)            | 10.7 (16)            | 866                            | 18.5 (59)                  | 13.9 (35)                   | 1,060 1.3 (1)      |
| St Clair  | 643             | 9.8 (52)               | 7.0 (17)               | 3,567                   | 6.2 (69)                | 2.6 (25)            | 10.2 (9)             | 1,636                          | 14.6 (13)                  | 10.1 (6)                    | 2,145 6.4 (26)     |
| St Joseph   | 389             | 8.2 (36)               | 8.0 (27)               | 2,228                   | 6.6 (74)                | 4.2 (66)            | 14.8 (68)            | 1,097                          | 21.5 (72)                  | 15.5 (62)                   | 1,348 10.8 (48)    |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

**Table 6B**  
**2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| Comparison of Growth and Anemia Indicators |                 |                        |                        |                         |                     |                         |                      |                                |                      |                      |                             | (3,4)     |             |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|-------------------------|----------------------|--------------------------------|----------------------|----------------------|-----------------------------|-----------|-------------|
| County                                     | Birthweight (5) |                        |                        | Height and Weight       |                     |                         |                      |                                |                      |                      | Anemia<br>Low Hb/Hct<br>(8) |           |             |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     | Under-<br>weight<br>(7) | Obese<br>(7)         | ≥ 2 Yrs<br>Over-<br>weight (7) |                      |                      |                             |           |             |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                         | %<br>85th-<br>(Rank) | %<br><95th<br>(Rank) | %<br>≥95th<br>(Rank)        | Number    | %<br>(Rank) |
| Tuscola                                    | 259             | 5.0 (3)                | 6.9 (15)               | 1,510                   | 5.1 (44)            | 3.1 (40)                | 8.6 (4)              | 753                            | 13.8 (9)             | 9.4 (4)              |                             | 979       | 9.5 (43)    |
| Van Buren                                  | 452             | 7.5 (27)               | 9.3 (39)               | 2,752                   | 5.3 (49)            | 2.5 (20)                | 16.9 (81)            | 1,381                          | 17.9 (54)            | 14.8 (55)            |                             | 1,694     | 22.3 (77)   |
| Washtenaw                                  | 1,012           | 9.2 (46)               | 4.7 (1)                | 5,081                   | 4.8 (36)            | 3.6 (53)                | 11.6 (24)            | 2,230                          | 16.8 (35)            | 11.6 (14)            |                             | 3,038     | 21.9 (76)   |
| Wayne                                      | 11,012          | 11.0 (56)              | 5.8 (7)                | 52,455                  | 5.5 (54)            | 4.7 (71)                | 12.0 (31)            | 22,452                         | 14.3 (11)            | 12.1 (17)            |                             | 30,061    | 23.4 (79)   |
| Wexford                                    | 244             | 6.1 (12)               | 9.0 (36)               | 1,320                   | 4.5 (25)            | 2.4 (17)                | 10.4 (11)            | 630                            | 15.4 (19)            | 14.3 (44)            |                             | 797       | 19.3 (74)   |
| Unknown Counties                           | 29              | * *                    | * *                    | 173                     | 12.7 (83)           | 4.6 (70)                | 31.2 (83)            | 89                             | * *                  | * *                  |                             | 140       | 15.7 (69)   |
| Michigan                                   | 44,244          | 9.0                    | 7.0                    | 231,205                 | 5.2                 | 3.7                     | 12.4                 | 106,019                        | 16.3                 | 13.3                 |                             | 137,121   | 15.6        |
| Nation<br>(Prior Year)                     | 1,961,342       | 8.9                    | 6.4                    | 8,451,215               | 6.0                 | 4.3                     | 14.0                 | 3,678,355                      | 16.4                 | 14.7                 |                             | 5,524,196 | 14.9        |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 7B**  
**2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**

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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County**  
**Children Aged < 5 Years** (3)

(2)

| Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5) |                   |                  |        |                               |        |                                |                             |                               |        |                               |                      |           |        |           |
|---|-------------------|------------------|--------|-------------------------------|--------|--------------------------------|-----------------------------|-------------------------------|--------|-------------------------------|----------------------|-----------|--------|-----------|
|   | Breastfeeding (6) |                  |        |                               |        |                                | Exclusive Breastfeeding (7) |                               |        | ≤2 Hours TV Viewing/Day (8)   | Smoking in Household |           |        |           |
| County  | Number            | % Ever Breastfed | Number | % Breastfed At Least 6 Months | Number | % Breastfed At Least 12 Months | Number                      | % Breastfed At Least 3 Months | Number | % Breastfed At Least 6 Months | Number               | %         | Number | %         |
|   |                   | (Rank)           |        | (Rank)                        |        | (Rank)                         |                             | (Rank)                        |        | (Rank)                        |                      | (Rank)    |        | (Rank)    |
| Alcona  | 29                | * *              | 20     | * *                           | 25     | * *                            | 14                          | * *                           | 19     | * *                           | 95                   | * *       | 194    | 9.3 (59)  |
| Alger   | 34                | * *              | 24     | * *                           | 20     | * *                            | 16                          | * *                           | 23     | * *                           | 97                   | * *       | 199    | 6.5 (30)  |
| Allegan   | 1,077             | 68.0 (12)        | 644    | 23.3 (14)                     | 901    | 9.4 (25)                       | 392                         | 21.4 (6)                      | 583    | 7.5 (25)                      | 3,290                | 85.8 (51) | 6,314  | 4.9 (14)  |
| Alpena  | 151               | 48.3 (52)        | 117    | 17.1 (35)                     | 104    | 10.6 (17)                      | 92                          | * *                           | 113    | 8.0 (23)                      | 383                  | 90.9 (17) | 777    | 7.2 (35)  |
| Antrim  | 91                | * *              | 79     | * *                           | 75     | * *                            | 57                          | * *                           | 74     | * *                           | 284                  | 89.1 (31) | 555    | 12.1 (72) |
| Arenac  | 77                | * *              | 44     | * *                           | 72     | * *                            | 36                          | * *                           | 41     | * *                           | 301                  | 86.4 (48) | 538    | 14.5 (77) |
| Baraga  | 50                | * *              | 32     | * *                           | 31     | * *                            | 27                          | * *                           | 27     | * *                           | 152                  | 86.8 (44) | 287    | 4.5 (10)  |
| Barry   | 237               | 66.7 (15)        | 201    | 19.9 (28)                     | 183    | 6.0 (42)                       | 118                         | 19.5 (12)                     | 180    | 8.3 (22)                      | 742                  | 86.8 (44) | 1,411  | 6.2 (27)  |
| Bay   | 513               | 58.9 (41)        | 380    | 15.3 (40)                     | 353    | 6.5 (39)                       | 302                         | 13.2 (28)                     | 360    | 3.1 (47)                      | 1,327                | 92.8 (5)  | 2,732  | 7.9 (47)  |
| Benzie  | 80                | * *              | 44     | * *                           | 51     | * *                            | 37                          | * *                           | 41     | * *                           | 244                  | 90.2 (21) | 474    | 3.6 (3)   |
| Berrien   | 791               | 47.9 (54)        | 542    | 15.9 (37)                     | 577    | 7.8 (36)                       | 393                         | 12.0 (30)                     | 528    | 5.5 (36)                      | 1,911                | 78.5 (74) | 4,024  | 10.5 (66) |
| Branch  | 271               | 59.8 (40)        | 194    | 21.6 (22)                     | 196    | 8.2 (33)                       | 132                         | 13.6 (26)                     | 183    | 9.8 (15)                      | 846                  | 87.6 (37) | 1,672  | 8.0 (49)  |
| Calhoun   | 805               | 49.1 (51)        | 565    | 14.9 (42)                     | 523    | 5.7 (43)                       | 450                         | 8.0 (38)                      | 530    | 4.3 (42)                      | 2,128                | 91.7 (11) | 4,378  | 5.2 (18)  |

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares this county's rate to other counties. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 7B**  
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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County**  
**Children Aged < 5 Years** (3)

(2)

| <b>Comparison of Breastfeeding, TV Viewing, and Smoking in Household</b> (4,5) |                      |                                      |        |  |                                |   |        |  |                                   |  |
|--|----------------------|--------------------------------------|--------|--|--------------------------------|---|--------|--|-----------------------------------|--|
|  | Breastfeeding<br>(6) |                                      |        |  | Exclusive Breastfeeding<br>(7) |   |        |  | ≤2 Hours TV<br>Viewing/Day<br>(8) | Smoking in<br>Household                                |
| <b>County</b>  | Number               | %<br>Ever<br>Breastfed<br><br>(Rank) | Number | %<br>Breastfed<br>At<br>Least<br>6<br>Months<br>(Rank) | Number                         | %<br>Breastfed<br>At<br>Least<br>12<br>Months<br>(Rank) | Number | %<br>Breastfed<br>At<br>Least<br>3<br>Months<br>(Rank) | Number                            | %<br>Breastfed<br>At<br>Least<br>6<br>Months<br>(Rank) |
| Cass   | 299                  | 61.9 (36)                            | 265    | 25.7 (9)   | 275                            | 12.4 (7)  | 177    | 16.4 (16)  | 230                               | 10.4 (12)  |
| Charlevoix   | 103                  | 69.9 (8)                             | 80     | * *  | 56                             | * *   | 59     | * *  | 68                                | * *  |
| Cheboygan  | 97                   | * *                                  | 75     | * *  | 60                             | * *   | 67     | * *  | 73                                | * *  |
| Chippewa   | 180                  | 65.0 (23)                            | 151    | 23.2 (15)  | 146                            | 8.2 (33)  | 137    | 20.4 (8)   | 137                               | 11.7 (7)   |
| Clare  | 180                  | 51.7 (47)                            | 98     | * *  | 153                            | 8.5 (30)  | 61     | * *  | 93                                | * *  |
| Clinton  | 158                  | 69.6 (9)                             | 141    | 23.4 (13)  | 112                            | 16.1 (3)  | 110    | 15.5 (22)  | 131                               | 4.6 (41)   |
| Crawford   | 57                   | * *                                  | 32     | * *  | 62                             | * *   | 14     | * *  | 32                                | * *  |
| Delta  | 142                  | 64.8 (24)                            | 152    | 20.4 (25)  | 127                            | 7.9 (35)  | 102    | 17.6 (14)  | 144                               | 9.0 (17)   |
| Dickinson  | 114                  | 64.0 (26)                            | 87     | * *  | 89                             | * *   | 57     | * *  | 84                                | * *  |
| Eaton  | 301                  | 64.8 (24)                            | 234    | 23.5 (12)  | 252                            | 10.7 (14)   | 144    | 16.0 (20)  | 213                               | 9.9 (14)   |
| Emmet  | 145                  | 77.9 (2)                             | 122    | 39.3 (1)   | 88                             | * *   | 80     | * *  | 108                               | 20.4 (1)   |
| Genesee  | 2,210                | 45.2 (56)                            | 1,668  | 12.8 (47)  | 1,289                          | 5.1 (46)  | 1,305  | 7.5 (39)   | 1,612                             | 3.6 (46)   |
| Gladwin  | 119                  | 65.5 (20)                            | 79     | * *  | 92                             | * *   | 41     | * *  | 73                                | * *  |

(1) Reporting period is January 1 through December 31.

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(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares this county's rate to other counties. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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**Table 7B**  
**2010 Pediatric Nutrition Surveillance** (1)  
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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County** (2)  
**Children Aged < 5 Years** (3)

| Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5) |                   |                  |        |                               |        |                                |                             |                               |        |                               |                      |           |
|---|-------------------|------------------|--------|-------------------------------|--------|--------------------------------|-----------------------------|-------------------------------|--------|-------------------------------|----------------------|-----------|
|   | Breastfeeding (6) |                  |        |                               |        |                                | Exclusive Breastfeeding (7) |                               |        | ≤2 Hours TV Viewing/Day (8)   | Smoking in Household |           |
| County  | Number            | % Ever Breastfed | Number | % Breastfed At Least 6 Months | Number | % Breastfed At Least 12 Months | Number                      | % Breastfed At Least 3 Months | Number | % Breastfed At Least 6 Months | Number               | %         |
|   | (Rank)            |                  | (Rank) |                               | (Rank) |                                | (Rank)                      |                               | (Rank) |                               | (Rank)               |           |
| Gogebic   | 68                | * *              | 61     | * *                           | 37     | * *                            | 38                          | * *                           | 59     | * *                           | 194                  | 89.7 (27) |
| Gr Travers  | 376               | 78.2 (1)         | 233    | 37.3 (2)                      | 264    | 16.7 (1)                       | 145                         | 32.4 (1)                      | 214    | 10.3 (13)                     | 960                  | 91.5 (13) |
| Gratiot   | 188               | 62.8 (30)        | 192    | 26.6 (8)                      | 165    | 9.1 (26)                       | 113                         | 20.4 (8)                      | 180    | 15.0 (3)                      | 615                  | 91.1 (15) |
| Hillsdale   | 214               | 71.0 (6)         | 170    | 24.1 (11)                     | 128    | 10.9 (11)                      | 118                         | 20.3 (10)                     | 163    | 14.1 (4)                      | 658                  | 90.1 (22) |
| Houghton  | 149               | 73.8 (3)         | 107    | 35.5 (4)                      | 76     | * *                            | 88                          | * *                           | 104    | 10.6 (10)                     | 457                  | 95.4 (4)  |
| Huron   | 175               | 48.0 (53)        | 105    | 18.1 (33)                     | 75     | * *                            | 87                          | * *                           | 100    | 5.0 (39)                      | 400                  | 95.5 (2)  |
| Ingham  | 1,280             | 62.8 (30)        | 923    | 18.2 (32)                     | 877    | 9.5 (24)                       | 597                         | 9.0 (34)                      | 874    | 4.3 (42)                      | 3,102                | 81.9 (68) |
| Ionia   | 299               | 61.9 (36)        | 167    | 14.4 (43)                     | 213    | 11.7 (8)                       | 94                          | * *                           | 163    | 11.0 (9)                      | 835                  | 96.8 (1)  |
| Iosco   | 116               | 62.1 (34)        | 86     | * *                           | 65     | * *                            | 60                          | * *                           | 77     | * *                           | 276                  | 84.8 (56) |
| Iron  | 53                | * *              | 42     | * *                           | 49     | * *                            | 24                          | * *                           | 36     | * *                           | 162                  | 90.7 (19) |
| Isabella  | 255               | 66.3 (16)        | 230    | 24.3 (10)                     | 250    | 8.8 (28)                       | 147                         | 22.4 (4)                      | 213    | 11.3 (8)                      | 682                  | 84.3 (60) |
| Jackson   | 874               | 57.3 (43)        | 738    | 12.9 (46)                     | 668    | 9.0 (27)                       | 451                         | 13.3 (27)                     | 711    | 5.9 (34)                      | 2,284                | 85.1 (54) |
| Kalamazoo   | 1,189             | 61.3 (38)        | 810    | 22.1 (20)                     | 730    | 10.5 (19)                      | 709                         | 15.8 (21)                     | 762    | 8.4 (21)                      | 3,193                | 75.4 (76) |
|   |                   |                  |        |                               |        |                                |                             |                               |        |                               |                      |           |

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(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares this county's rate to other counties. Rank 1 = best rate.

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**Table 7B**  
**2010 Pediatric Nutrition Surveillance** (1)  
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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County**  
**Children Aged < 5 Years** (3)

(2)

| <b>Comparison of Breastfeeding, TV Viewing, and Smoking in Household</b> (4,5) |                             |                                      |   |  |   |   |   |                                 |                 |
|--|-----------------------------|--------------------------------------|---|--|---|---|---|---------------------------------|-----------------|
|  | <b>Breastfeeding</b><br>(6) |                                      |   | <b>Exclusive Breastfeeding</b><br>(7)                          |   |   | <b>≤2 Hours TV<br/>Viewing/Day</b><br>(8) | <b>Smoking in<br/>Household</b> |                 |
| <b>County</b>  | Number                      | %<br>Ever<br>Breastfed<br><br>(Rank) | Number %<br>Breastfed<br>At<br>Least<br>6<br>Months<br>(Rank) | Number %<br>Breastfed<br>At<br>Least<br>12<br>Months<br>(Rank) | Number %<br>Breastfed<br>At<br>Least<br>3<br>Months<br>(Rank) | Number %<br>Breastfed<br>At<br>Least<br>6<br>Months<br>(Rank) | Number %<br><br>(Rank)                    | Number                          | %<br><br>(Rank) |
| Kalkaska   | 78                          | * *                                  | 46 * *  | 77 * *   | 18 * *  | 45 * *  | 247 89.5 (30)                             | 485                             | 12.0 (71)       |
| Kent   | 3,234                       | 62.4 (33)                            | 2,707 21.1 (23)   | 2,329 10.8 (13)  | 1,899 12.2 (29)   | 2,471 8.0 (23)  | 9,729 85.5 (52)                           | 19,322                          | 4.0 (5)         |
| Lake   | 33                          | * *                                  | 27 * *  | 41 * *   | 13 * *  | 25 * *  | 156 75.0 (77)                             | 285                             | 22.1 (82)       |
| Lapeer   | 365                         | 63.0 (29)                            | 296 16.6 (36)   | 319 10.7 (14)  | 212 11.8 (31)   | 285 6.3 (31)  | 1,048 89.7 (27)                           | 2,124                           | 4.2 (8)         |
| Leelanau   | 47                          | * *                                  | 26 * *  | 35 * *   | 16 * *  | 24 * *  | 149 83.2 (65)                             | 281                             | 7.1 (33)        |
| Lenawee  | 430                         | 66.3 (16)                            | 356 22.2 (18)   | 310 10.6 (17)  | 242 14.9 (23)   | 335 7.5 (25)  | 931 76.2 (75)                             | 1,978                           | 5.3 (19)        |
| Livingston   | 385                         | 65.5 (20)                            | 145 20.7 (24)   | 261 10.0 (22)  | 73 * *  | 139 6.5 (30)  | 833 91.1 (15)                             | 1,770                           | 5.3 (19)        |
| Luce   | 49                          | * *                                  | 39 * *  | 34 * *   | 27 * *  | 37 * *  | 120 82.5 (67)                             | 251                             | 10.0 (63)       |
| Mackinac   | 36                          | * *                                  | 21 * *  | 24 * *   | 6 * *   | 21 * *  | 134 85.1 (54)                             | 218                             | 10.6 (67)       |
| Macomb   | 2,632                       | 50.0 (49)                            | 1,681 15.4 (38)   | 1,952 8.3 (31)   | 1,352 8.4 (35)  | 1,575 5.5 (36)  | 4,940 81.6 (69)                           | 12,007                          | 5.1 (17)        |
| Manistee   | 83                          | * *                                  | 65 * *  | 83 * *   | 32 * *  | 61 * *  | 266 91.4 (14)                             | 515                             | 9.3 (59)        |
| Marquette  | 226                         | 62.8 (30)                            | 171 22.2 (18)   | 198 15.7 (4)   | 121 22.3 (5)  | 166 12.7 (6)  | 579 89.8 (26)                             | 1,240                           | 4.1 (7)         |
| Mason  | 147                         | 66.0 (19)                            | 84 * *  | 126 11.1 (10)  | 80 * *  | 80 * *  | 408 90.0 (23)                             | 837                             | 7.8 (46)        |

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**Table 7B**  
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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County**  
**Children Aged < 5 Years** (3)

(2)

| Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5) |                   |                        |        |  |        |   |                             |  |        |  |                             |           |                      |           |
|---|-------------------|------------------------|--------|--|--------|---|-----------------------------|--|--------|--|-----------------------------|-----------|----------------------|-----------|
|   | Breastfeeding (6) |                        |        |  |        |   | Exclusive Breastfeeding (7) |  |        |  | ≤2 Hours TV Viewing/Day (8) |           | Smoking in Household |           |
| County  | Number            | %<br>Ever<br>Breastfed | Number | %<br>Breastfed<br>At<br>Least<br>6<br>Months | Number | %<br>Breastfed<br>At<br>Least<br>12<br>Months | Number                      | %<br>Breastfed<br>At<br>Least<br>3<br>Months | Number | %<br>Breastfed<br>At<br>Least<br>6<br>Months | Number                      | %         | Number               | %         |
|   |                   | (Rank)                 |        | (Rank)                                       |        | (Rank)  |                             | (Rank)                                       |        | (Rank)                                       |                             | (Rank)    |                      | (Rank)    |
| Mecosta   | 205               | 63.4 (28)              | 157    | 20.4 (25)                                    | 155    | 9.7 (23)                                      | 120                         | 16.7 (15)                                    | 151    | 9.3 (16)                                     | 537                         | 95.5 (2)  | 1,138                | 6.4 (29)  |
| Menominee   | 76                | * *                    | 60     | * *  | 51     | * *   | 48                          | * *  | 59     | * *  | 211                         | 90.0 (23) | 432                  | 5.3 (19)  |
| Midland   | 359               | 68.5 (11)              | 137    | 22.6 (17)                                    | 251    | 10.4 (20)                                     | 51                          | * *  | 133    | 9.0 (17)                                     | 893                         | 88.0 (36) | 1,784                | 4.7 (12)  |
| Missaukee   | 45                | * *                    | 33     | * *  | 34     | * *   | 20                          | * *  | 32     | * *  | 135                         | 92.6 (6)  | 268                  | 11.2 (69) |
| Monroe  | 596               | 58.7 (42)              | 495    | 13.3 (45)                                    | 472    | 8.3 (31)                                      | 387                         | 14.7 (24)                                    | 482    | 6.0 (32)                                     | 1,431                       | 82.8 (66) | 3,155                | 7.5 (41)  |
| Montcalm  | 324               | 65.4 (22)              | 185    | 22.7 (16)                                    | 189    | 6.3 (41)                                      | 127                         | 18.1 (13)                                    | 175    | 8.6 (19)                                     | 838                         | 87.2 (41) | 1,729                | 8.9 (54)  |
| Montmorenc  | 37                | * *                    | 28     | * *  | 33     | * *   | 21                          | * *  | 28     | * *  | 137                         | 84.7 (58) | 231                  | 7.4 (38)  |
| Muskegon  | 1,193             | 49.7 (50)              | 711    | 13.6 (44)                                    | 891    | 5.3 (45)                                      | 556                         | 14.7 (24)                                    | 657    | 4.1 (45)                                     | 3,184                       | 86.9 (43) | 6,422                | 7.6 (42)  |
| Newaygo   | 269               | 68.8 (10)              | 174    | 20.1 (27)                                    | 209    | 11.5 (9)                                      | 127                         | 21.3 (7)                                     | 168    | 7.1 (28)                                     | 1,018                       | 84.8 (56) | 1,823                | 9.4 (61)  |
| Oakland   | 3,260             | 52.7 (46)              | 2,326  | 19.3 (30)                                    | 1,742  | 8.8 (28)                                      | 1,910                       | 11.0 (32)                                    | 2,240  | 5.8 (35)                                     | 7,001                       | 81.6 (69) | 15,931               | 3.9 (4)   |
| Oceana  | 190               | 66.3 (16)              | 129    | 30.2 (7)                                     | 128    | 16.4 (2)                                      | 105                         | 16.2 (18)                                    | 124    | 7.3 (27)                                     | 623                         | 81.2 (71) | 1,157                | 7.3 (36)  |
| Ogemaw  | 92                | * *                    | 88     | * *  | 64     | * *   | 60                          | * *  | 77     | * *  | 289                         | 83.7 (63) | 568                  | 12.5 (73) |
| Ontonagon   | 17                | * *                    | 11     | * *  | 11     | * *   | 7                           | * *  | 11     | * *  | 81                          | * *       | 133                  | 9.0 (55)  |

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**Table 7B**  
**2010 Pediatric Nutrition Surveillance** (1)  
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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County** (2)  
**Children Aged < 5 Years** (3)

| Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5) |                   |                  |        |                               |        |                                |                             |                               |        |                               |                             |           |                      |           |
|---|-------------------|------------------|--------|-------------------------------|--------|--------------------------------|-----------------------------|-------------------------------|--------|-------------------------------|-----------------------------|-----------|----------------------|-----------|
|   | Breastfeeding (6) |                  |        |                               |        |                                | Exclusive Breastfeeding (7) |                               |        |                               | ≤2 Hours TV Viewing/Day (8) |           | Smoking in Household |           |
| County  | Number            | % Ever Breastfed | Number | % Breastfed At Least 6 Months | Number | % Breastfed At Least 12 Months | Number                      | % Breastfed At Least 3 Months | Number | % Breastfed At Least 6 Months | Number                      | %         | Number               | %         |
|   |                   | (Rank)           |        | (Rank)                        |        | (Rank)                         |                             | (Rank)                        |        | (Rank)                        |                             | (Rank)    |                      | (Rank)    |
| Osceola   | 122               | 63.9 (27)        | 76     | * *                           | 101    | 10.9 (11)                      | 64                          | * *                           | 75     | * *                           | 391                         | 92.3 (8)  | 749                  | 16.7 (79) |
| Oscoda  | 36                | * *              | 23     | * *                           | 28     | * *                            | 22                          | * *                           | 21     | * *                           | 81                          | * *       | 186                  | 23.7 (83) |
| Otsego  | 147               | 67.3 (13)        | 103    | 35.9 (3)                      | 97     | * *                            | 72                          | * *                           | 89     | * *                           | 401                         | 90.8 (18) | 793                  | 12.5 (73) |
| Ottawa  | 391               | 73.1 (4)         | 223    | 31.4 (6)                      | 344    | 14.8 (6)                       | 140                         | 27.1 (2)                      | 214    | 15.4 (2)                      | 1,285                       | 91.8 (10) | 2,377                | 2.9 (2)   |
| Presque Is  | 37                | * *              | 22     | * *                           | 30     | * *                            | 18                          | * *                           | 21     | * *                           | 124                         | 83.9 (62) | 220                  | 20.5 (81) |
| Roscommon   | 94                | * *              | 69     | * *                           | 86     | * *                            | 42                          | * *                           | 68     | * *                           | 264                         | 88.3 (34) | 543                  | 7.9 (47)  |
| Saginaw   | 1,097             | 47.9 (54)        | 683    | 12.7 (48)                     | 691    | 5.1 (46)                       | 514                         | 8.2 (37)                      | 645    | 4.7 (40)                      | 3,153                       | 80.8 (72) | 6,197                | 9.5 (62)  |
| Sanilac   | 197               | 60.9 (39)        | 172    | 18.6 (31)                     | 126    | 4.8 (48)                       | 110                         | 16.4 (16)                     | 166    | 6.0 (32)                      | 479                         | 83.7 (63) | 1,054                | 8.3 (51)  |
| Schoolcraf  | 40                | * *              | 28     | * *                           | 34     | * *                            | 18                          | * *                           | 28     | * *                           | 113                         | 87.6 (37) | 237                  | 13.1 (75) |
| Shiawassee  | 319               | 56.7 (44)        | 125    | 15.2 (41)                     | 227    | 10.1 (21)                      | 56                          | * *                           | 121    | 0.8 (49)                      | 915                         | 92.6 (6)  | 1,713                | 11.3 (70) |
| St Clair  | 641               | 50.4 (48)        | 574    | 12.4 (49)                     | 502    | 7.4 (37)                       | 362                         | 8.3 (36)                      | 548    | 4.2 (44)                      | 1,707                       | 88.2 (35) | 3,612                | 10.2 (64) |
| St Joseph   | 392               | 62.0 (35)        | 287    | 19.9 (28)                     | 261    | 7.3 (38)                       | 207                         | 10.1 (33)                     | 272    | 8.5 (20)                      | 1,156                       | 90.0 (23) | 2,255                | 4.9 (14)  |
| Tuscola   | 259               | 56.0 (45)        | 149    | 15.4 (38)                     | 186    | 6.5 (39)                       | 68                          | * *                           | 144    | 6.9 (29)                      | 797                         | 84.2 (61) | 1,523                | 7.6 (42)  |

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**Table 7B**  
**2010 Pediatric Nutrition Surveillance** (1)  
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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County** (2)  
**Children Aged < 5 Years** (3)

| Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5) |                   |                        |         |  |           |   |                             |  |         |  |           |                      |           |           |
|---|-------------------|------------------------|---------|--|-----------|---|-----------------------------|--|---------|--|-----------|----------------------|-----------|-----------|
|   | Breastfeeding (6) |                        |         |  |           |   | Exclusive Breastfeeding (7) |  |         | ≤2 Hours TV Viewing/Day (8)                  |           | Smoking in Household |           |           |
| County  | Number            | %<br>Ever<br>Breastfed | Number  | %<br>Breastfed<br>At<br>Least<br>6<br>Months | Number    | %<br>Breastfed<br>At<br>Least<br>12<br>Months | Number                      | %<br>Breastfed<br>At<br>Least<br>3<br>Months | Number  | %<br>Breastfed<br>At<br>Least<br>6<br>Months | Number    | %                    | Number    | %         |
|   |                   | (Rank)                 |         | (Rank)                                       |           | (Rank)  |                             | (Rank)                                       |         | (Rank)                                       |           | (Rank)               |           | (Rank)    |
| Van Buren   | 462               | 70.6 (7)               | 381     | 21.8 (21)                                    | 374       | 10.7 (14)                                     | 280                         | 22.9 (3)                                     | 334     | 10.5 (11)                                    | 1,430     | 88.7 (33)            | 2,776     | 6.1 (25)  |
| Washtenaw   | 1,015             | 67.0 (14)              | 759     | 31.8 (5)                                     | 637       | 15.1 (5)                                      | 571                         | 19.6 (11)                                    | 714     | 13.7 (5)                                     | 2,330     | 86.2 (50)            | 5,104     | 9.2 (58)  |
| Wayne   | 11,249            | 44.0 (57)              | 7,130   | 12.4 (49)                                    | 6,489     | 5.6 (44)                                      | 5,565                       | 4.6 (40)                                     | 6,790   | 2.6 (48)                                     | 23,517    | 72.6 (78)            | 53,240    | 8.4 (52)  |
| Wexford   | 244               | 72.1 (5)               | 174     | 17.8 (34)                                    | 148       | 3.4 (49)                                      | 137                         | 16.1 (19)                                    | 169     | 5.3 (38)                                     | 658       | 87.4 (40)            | 1,337     | 9.1 (56)  |
| Unknown Counties  | 31                | * *                    | 20      | * *  | 11        | * *   | 20                          | * *  | 20      | * *  | 109       | 54.1 (79)            | 197       | 20.3 (80) |
| Michigan  | 44,728            | 54.9                   | 31,130  | 17.8   | 29,900    | 8.4   | 22,987                      | 11.6   | 29,396  | 6.0  | 110,890   | 82.5                 | 234,313   | 7.0       |
| Nation (Prior Year)   | 1,769,160         | 61.7                   | 911,779 | 27.0   | 1,092,573 | 18.5  | 317,037                     | 9.9  | 420,655 | 5.3  | 1,022,933 | 77.3                 | 4,355,723 | 10.2      |

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares this county's rate to other counties. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 6B**  
**2008 - 2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| Comparison of Growth and Anemia Indicators |                 |                        |                        |                         |                     |                     |                         |              |                                |                      |                             | (3,4)       |  |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|---------------------|-------------------------|--------------|--------------------------------|----------------------|-----------------------------|-------------|--|
| County                                     | Birthweight (5) |                        |                        | Height and Weight       |                     |                     |                         |              |                                |                      | Anemia<br>Low Hb/Hct<br>(8) |             |  |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     |                     | Under-<br>weight<br>(7) | Obese<br>(7) | ≥ 2 Yrs<br>Over-<br>weight (7) |                      |                             |             |  |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank) | %<br>≥95th<br>(Rank)    | Number       | %<br>85th- <95th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                      | %<br>(Rank) |  |
| Alcona                                     | 119             | 5.0 (2)                | 7.6 (31)               | 597                     | 3.9 (6)             | 3.9 (60)            | 11.2 (16)               | 271          | 17.7 (52)                      | 11.8 (12)            | 361                         | 13.3 (61)   |  |
| Alger                                      | 111             | 6.3 (10)               | 8.1 (38)               | 634                     | 4.3 (11)            | 1.6 (1)             | 14.4 (66)               | 305          | 20.0 (74)                      | 18.4 (78)            | 397                         | 7.6 (31)    |  |
| Allegan                                    | 3,984           | 7.8 (40)               | 7.9 (33)               | 20,023                  | 4.5 (15)            | 3.7 (55)            | 12.7 (37)               | 9,710        | 17.3 (44)                      | 14.0 (38)            | 12,956                      | 19.0 (73)   |  |
| Alpena                                     | 517             | 10.3 (76)              | 9.5 (58)               | 2,459                   | 6.7 (72)            | 3.1 (35)            | 13.5 (54)               | 1,154        | 17.2 (41)                      | 15.1 (57)            | 1,527                       | 9.7 (41)    |  |
| Antrim                                     | 330             | 10.9 (79)              | 7.3 (23)               | 1,758                   | 5.3 (30)            | 4.8 (75)            | 12.9 (42)               | 877          | 15.4 (13)                      | 11.9 (13)            | 1,186                       | 5.6 (21)    |  |
| Arenac                                     | 282             | 9.6 (69)               | 9.6 (61)               | 1,677                   | 6.8 (74)            | 3.1 (35)            | 13.4 (51)               | 889          | 19.6 (71)                      | 15.5 (65)            | 1,132                       | 4.4 (10)    |  |
| Baraga                                     | 172             | 7.6 (36)               | 9.3 (54)               | 871                     | 5.4 (33)            | 3.1 (35)            | 17.8 (82)               | 437          | 19.9 (73)                      | 20.4 (81)            | 523                         | 7.3 (28)    |  |
| Barry                                      | 845             | 6.0 (5)                | 8.0 (34)               | 4,099                   | 4.8 (20)            | 3.9 (60)            | 9.5 (6)                 | 1,950        | 16.4 (23)                      | 10.4 (7)             | 2,428                       | 5.2 (16)    |  |
| Bay  | 1,785           | 8.3 (50)               | 10.3 (69)              | 8,407                   | 6.4 (63)            | 2.4 (16)            | 12.2 (28)               | 3,869        | 16.9 (31)                      | 14.0 (38)            | 5,543                       | 14.1 (64)   |  |
| Benzie                                     | 264             | 10.2 (75)              | 10.2 (67)              | 1,482                   | 5.2 (27)            | 4.9 (77)            | 13.6 (55)               | 742          | 15.1 (12)                      | 15.2 (59)            | 985                         | 6.1 (22)    |  |
| Berrien                                    | 2,817           | 8.6 (58)               | 6.7 (13)               | 12,417                  | 6.2 (55)            | 2.2 (9)             | 12.4 (34)               | 5,566        | 17.0 (37)                      | 13.0 (22)            | 7,899                       | 14.9 (67)   |  |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

**Table 6B**  
**2008 - 2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| Comparison of Growth and Anemia Indicators (3,4) |                 |                        |                        |                         |                     |                     |                         |              |                                |                      |                             |             |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|---------------------|-------------------------|--------------|--------------------------------|----------------------|-----------------------------|-------------|
| County   | Birthweight (5) |                        |                        | Height and Weight       |                     |                     |                         |              |                                |                      | Anemia<br>Low Hb/Hct<br>(8) |             |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     |                     | Under-<br>weight<br>(7) | Obese<br>(7) | ≥ 2 Yrs<br>Over-<br>weight (7) |                      |                             |             |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank) | %<br>≥95th<br>(Rank)    | Number       | %<br>85th- <95th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                      | %<br>(Rank) |
| Branch   | 1,020           | 5.9 (4)                | 8.1 (38)               | 5,138                   | 6.1 (54)            | 3.2 (42)            | 14.5 (68)               | 2,487        | 17.8 (54)                      | 14.3 (41)            | 3,206                       | 8.2 (34)    |
| Calhoun  | 2,980           | 8.4 (56)               | 7.3 (23)               | 13,367                  | 6.7 (72)            | 3.2 (42)            | 14.5 (68)               | 5,949        | 17.7 (52)                      | 15.2 (59)            | 7,902                       | 15.5 (68)   |
| Cass   | 1,177           | 8.1 (46)               | 9.2 (53)               | 6,189                   | 5.2 (27)            | 4.4 (70)            | 13.2 (46)               | 3,019        | 14.0 (5)                       | 13.4 (26)            | 4,008                       | 27.3 (82)   |
| Charlevoix                                       | 336             | 8.0 (44)               | 7.1 (20)               | 1,853                   | 5.4 (33)            | 4.0 (64)            | 12.3 (30)               | 953          | 17.0 (37)                      | 11.4 (10)            | 1,295                       | 4.3 (9)     |
| Cheboygan  | 398             | 4.3 (1)                | 8.5 (49)               | 2,043                   | 4.1 (9)             | 3.6 (52)            | 13.8 (57)               | 990          | 14.9 (10)                      | 18.3 (77)            | 1,338                       | 9.6 (39)    |
| Chippewa   | 686             | 6.1 (7)                | 11.7 (78)              | 3,379                   | 5.5 (36)            | 3.2 (42)            | 13.9 (58)               | 1,583        | 16.5 (24)                      | 14.7 (50)            | 2,237                       | 8.2 (34)    |
| Clare  | 627             | 8.3 (50)               | 4.9 (2)                | 2,947                   | 5.8 (43)            | 3.7 (55)            | 12.8 (40)               | 1,387        | 18.3 (61)                      | 14.3 (41)            | 1,943                       | 9.1 (38)    |
| Clinton  | 633             | 7.0 (23)               | 9.6 (61)               | 3,002                   | 6.4 (63)            | 2.6 (22)            | 14.5 (68)               | 1,351        | 16.1 (21)                      | 15.6 (66)            | 1,939                       | 6.3 (23)    |
| Crawford   | 242             | 7.9 (43)               | 6.6 (10)               | 1,044                   | 5.5 (36)            | 1.7 (2)             | 11.4 (18)               | 453          | 23.6 (83)                      | 13.9 (35)            | 680                         | 12.2 (57)   |
| Delta  | 620             | 6.3 (10)               | 9.5 (58)               | 3,178                   | 6.3 (59)            | 2.4 (16)            | 12.3 (30)               | 1,529        | 17.3 (44)                      | 14.3 (41)            | 2,085                       | 2.5 (1)     |
| Dickinson  | 444             | 7.4 (31)               | 9.5 (58)               | 2,109                   | 6.2 (55)            | 1.9 (5)             | 12.8 (40)               | 1,047        | 17.0 (37)                      | 13.4 (26)            | 1,353                       | 4.8 (13)    |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 6B**  
**2008 - 2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| Comparison of Growth and Anemia Indicators (3,4) |                 |                        |                        |                         |                         |                     |                      |                                |                            |                             |                    |
|--|-----------------|------------------------|------------------------|-------------------------|-------------------------|---------------------|----------------------|--------------------------------|----------------------------|-----------------------------|--------------------|
| County   | Birthweight (5) |                        |                        | Height and Weight       |                         |                     |                      |                                |                            | Anemia<br>Low Hb/Hct<br>(8) |                    |
|  | Low             | High                   |                        | Short<br>Stature<br>(6) | Under-<br>weight<br>(7) | Obese<br>(7)        |                      | ≥ 2 Yrs<br>Over-<br>weight (7) |                            |                             |                    |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank)     | %<br><5th<br>(Rank) | %<br>≥95th<br>(Rank) | Number                         | %<br>85th- <95th<br>(Rank) | %<br>≥95th<br>(Rank)        | Number %<br>(Rank) |
| Eaton  | 1,159           | 7.3 (28)               | 8.3 (44)               | 5,018                   | 5.2 (27)                | 3.9 (60)            | 11.8 (22)            | 2,121                          | 18.7 (64)                  | 13.8 (33)                   | 2,844 4.6 (11)     |
| Emmet  | 517             | 9.1 (65)               | 11.8 (79)              | 2,792                   | 5.6 (40)                | 2.5 (20)            | 13.3 (48)            | 1,380                          | 19.1 (69)                  | 14.3 (41)                   | 1,907 3.9 (6)      |
| Genesee  | 8,337           | 10.9 (79)              | 5.2 (3)                | 34,529                  | 7.1 (75)                | 3.9 (60)            | 13.6 (55)            | 14,491                         | 15.9 (15)                  | 13.4 (26)                   | 21,460 20.2 (75)   |
| Gladwin  | 435             | 9.0 (64)               | 8.3 (44)               | 2,232                   | 6.0 (48)                | 2.3 (11)            | 13.4 (51)            | 1,126                          | 16.9 (31)                  | 15.3 (62)                   | 1,504 12.9 (60)    |
| Gogebic  | 267             | 6.7 (16)               | 9.4 (56)               | 1,195                   | 6.5 (67)                | 2.2 (9)             | 12.1 (27)            | 559                            | 17.9 (58)                  | 13.8 (33)                   | 714 3.8 (5)        |
| Gr Travers                                       | 1,341           | 7.3 (28)               | 10.1 (66)              | 6,249                   | 5.5 (36)                | 5.7 (81)            | 11.6 (20)            | 2,998                          | 16.5 (24)                  | 12.5 (18)                   | 3,750 9.6 (39)     |
| Gratiot  | 711             | 7.6 (36)               | 7.5 (28)               | 3,806                   | 6.5 (67)                | 3.1 (35)            | 14.5 (68)            | 1,845                          | 16.7 (28)                  | 15.1 (57)                   | 2,359 5.5 (20)     |
| Hillsdale  | 733             | 7.2 (26)               | 8.3 (44)               | 3,997                   | 6.4 (63)                | 3.1 (35)            | 12.3 (30)            | 1,952                          | 18.9 (67)                  | 15.6 (66)                   | 2,663 3.6 (3)      |
| Houghton   | 560             | 6.1 (7)                | 10.7 (74)              | 2,729                   | 6.4 (63)                | 2.8 (29)            | 10.0 (8)             | 1,324                          | 15.6 (14)                  | 9.7 (3)                     | 1,542 5.3 (18)     |
| Huron  | 579             | 6.9 (20)               | 10.5 (73)              | 2,738                   | 4.4 (13)                | 4.2 (67)            | 11.7 (21)            | 1,304                          | 17.3 (44)                  | 12.0 (14)                   | 1,592 10.2 (43)    |
| Ingham   | 4,156           | 8.3 (50)               | 7.2 (22)               | 20,012                  | 5.5 (36)                | 3.2 (42)            | 13.2 (46)            | 8,930                          | 16.9 (31)                  | 14.3 (41)                   | 12,198 12.0 (54)   |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 6B**  
**2008 - 2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

| Comparison of Growth and Anemia Indicators (3,4) |                 |                        |                        |                         |                     |                         |                      |                                |                      |                      |                             |        |             |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|-------------------------|----------------------|--------------------------------|----------------------|----------------------|-----------------------------|--------|-------------|
| County   | Birthweight (5) |                        |                        | Height and Weight       |                     |                         |                      |                                |                      |                      | Anemia<br>Low Hb/Hct<br>(8) |        |             |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     | Under-<br>weight<br>(7) | Obese<br>(7)         | ≥ 2 Yrs<br>Over-<br>weight (7) |                      |                      |                             |        |             |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                         | %<br>85th-<br>(Rank) | %<br><95th<br>(Rank) | %<br>≥95th<br>(Rank)        | Number | %<br>(Rank) |
| Ionia  | 1,157           | 6.6 (12)               | 6.0 (6)                | 5,405                   | 5.8 (43)            | 3.8 (58)                | 11.8 (22)            | 2,540                          | 21.3 (78)            | 13.3 (24)            |                             | 3,729  | 11.3 (49)   |
| Iosco  | 376             | 6.6 (12)               | 9.8 (63)               | 1,778                   | 6.2 (55)            | 4.7 (74)                | 14.6 (73)            | 807                            | 18.7 (64)            | 14.7 (50)            |                             | 1,054  | 16.0 (69)   |
| Iron   | 225             | 6.2 (9)                | 8.4 (48)               | 1,017                   | 4.5 (15)            | 2.7 (26)                | 13.9 (58)            | 466                            | 17.8 (54)            | 15.7 (68)            |                             | 675    | 4.7 (12)    |
| Isabella   | 1,019           | 8.8 (61)               | 7.5 (28)               | 4,620                   | 7.1 (75)            | 2.7 (26)                | 12.7 (37)            | 2,024                          | 16.7 (28)            | 16.4 (73)            |                             | 2,887  | 6.9 (24)    |
| Jackson  | 3,277           | 8.3 (50)               | 8.1 (38)               | 14,363                  | 4.9 (22)            | 5.2 (79)                | 10.4 (9)             | 6,309                          | 17.0 (37)            | 13.2 (23)            |                             | 6,266  | 10.4 (46)   |
| Kalamazoo  | 4,261           | 10.0 (74)              | 6.7 (13)               | 19,818                  | 5.4 (33)            | 4.9 (77)                | 13.9 (58)            | 9,209                          | 16.9 (31)            | 14.3 (41)            |                             | 12,723 | 24.1 (80)   |
| Kalkaska   | 336             | 9.8 (72)               | 8.0 (34)               | 1,570                   | 6.5 (67)            | 3.2 (42)                | 9.0 (4)              | 715                            | 13.7 (4)             | 11.2 (9)             |                             | 1,044  | 12.7 (59)   |
| Kent   | 11,981          | 8.5 (57)               | 8.1 (38)               | 60,017                  | 6.3 (59)            | 2.3 (11)                | 13.9 (58)            | 28,366                         | 16.9 (31)            | 14.9 (53)            |                             | 39,432 | 13.3 (61)   |
| Lake   | 176             | 9.7 (70)               | 8.0 (34)               | 935                     | 6.3 (59)            | 1.8 (4)                 | 14.2 (63)            | 485                            | 20.2 (75)            | 14.4 (47)            |                             | 637    | 14.3 (66)   |
| Lapeer   | 1,454           | 8.7 (60)               | 8.1 (38)               | 6,801                   | 8.1 (82)            | 3.0 (32)                | 14.4 (66)            | 3,145                          | 18.3 (61)            | 16.2 (72)            |                             | 4,156  | 11.3 (49)   |
| Leelanau   | 165             | 5.5 (3)                | 15.8 (81)              | 825                     | 3.9 (6)             | 3.4 (49)                | 16.0 (77)            | 428                            | 20.3 (76)            | 15.4 (63)            |                             | 561    | 7.5 (30)    |

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(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

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**Table 6B**  
**2008 - 2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| Comparison of Growth and Anemia Indicators |                 |                        |                        |                         |                     |                     |                         |              |                                |                      |                             | (3,4)       |  |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|---------------------|-------------------------|--------------|--------------------------------|----------------------|-----------------------------|-------------|--|
| County                                     | Birthweight (5) |                        |                        | Height and Weight       |                     |                     |                         |              |                                |                      | Anemia<br>Low Hb/Hct<br>(8) |             |  |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     |                     | Under-<br>weight<br>(7) | Obese<br>(7) | ≥ 2 Yrs<br>Over-<br>weight (7) |                      |                             |             |  |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank) | %<br>≥95th<br>(Rank)    | Number       | %<br>85th- <95th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                      | %<br>(Rank) |  |
| Lenawee                                    | 1,458           | 8.6 (58)               | 6.9 (18)               | 6,490                   | 7.9 (81)            | 4.5 (72)            | 13.4 (51)               | 2,778        | 18.1 (60)                      | 15.7 (68)            | 3,535                       | 7.7 (32)    |  |
| Livingston                                 | 1,304           | 7.3 (28)               | 10.4 (71)              | 5,471                   | 5.0 (24)            | 3.6 (52)            | 10.4 (9)                | 2,372        | 18.7 (64)                      | 14.8 (52)            | 3,483                       | 5.0 (14)    |  |
| Luce                                       | 170             | 8.2 (47)               | 10.0 (65)              | 786                     | 4.2 (10)            | 3.8 (58)            | 14.0 (62)               | 373          | 21.7 (80)                      | 17.2 (75)            | 519                         | 11.8 (52)   |  |
| Mackinac                                   | 120             | 7.5 (33)               | 12.5 (80)              | 698                     | 3.4 (4)             | 2.1 (7)             | 14.2 (63)               | 374          | 23.3 (82)                      | 16.6 (74)            | 471                         | 10.2 (43)   |  |
| Macomb                                     | 9,439           | 9.4 (67)               | 6.2 (8)                | 34,608                  | 5.8 (43)            | 2.7 (26)            | 13.1 (45)               | 12,686       | 15.9 (15)                      | 12.9 (21)            | 20,991                      | 17.2 (71)   |  |
| Manistee                                   | 351             | 8.0 (44)               | 7.4 (26)               | 1,645                   | 6.0 (48)            | 2.6 (22)            | 12.6 (36)               | 766          | 21.4 (79)                      | 16.1 (71)            | 1,089                       | 7.4 (29)    |  |
| Marquette                                  | 911             | 7.5 (33)               | 8.3 (44)               | 4,042                   | 4.6 (17)            | 2.0 (6)             | 13.3 (48)               | 1,852        | 19.2 (70)                      | 13.7 (31)            | 2,338                       | 8.8 (36)    |  |
| Mason                                      | 579             | 7.8 (40)               | 7.6 (31)               | 2,636                   | 6.5 (67)            | 2.1 (7)             | 11.9 (25)               | 1,249        | 20.9 (77)                      | 15.4 (63)            | 1,745                       | 12.1 (55)   |  |
| Mecosta                                    | 794             | 7.4 (31)               | 10.3 (69)              | 3,621                   | 4.3 (11)            | 2.8 (29)            | 9.8 (7)                 | 1,695        | 17.9 (58)                      | 10.2 (4)             | 2,312                       | 11.9 (53)   |  |
| Menominee                                  | 321             | 7.2 (26)               | 7.5 (28)               | 1,447                   | 4.8 (20)            | 2.6 (22)            | 13.3 (48)               | 656          | 17.5 (50)                      | 14.6 (49)            | 927                         | 4.0 (7)     |  |
| Midland                                    | 1,232           | 8.8 (61)               | 8.0 (34)               | 5,352                   | 7.8 (80)            | 2.6 (22)            | 17.0 (80)               | 2,447        | 16.6 (27)                      | 14.5 (48)            | 3,052                       | 7.2 (26)    |  |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 6B**  
**2008 - 2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| Comparison of Growth and Anemia Indicators (3,4) |                 |                        |                        |                         |                     |                         |                      |                                |                      |                      |                             |        |             |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|-------------------------|----------------------|--------------------------------|----------------------|----------------------|-----------------------------|--------|-------------|
| County   | Birthweight (5) |                        |                        | Height and Weight       |                     |                         |                      |                                |                      |                      | Anemia<br>Low Hb/Hct<br>(8) |        |             |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     | Under-<br>weight<br>(7) | Obese<br>(7)         | ≥ 2 Yrs<br>Over-<br>weight (7) |                      |                      |                             |        |             |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                         | %<br>85th-<br>(Rank) | %<br><95th<br>(Rank) | %<br>≥95th<br>(Rank)        | Number | %<br>(Rank) |
| Missaukee  | 161             | 7.5 (33)               | 8.1 (38)               | 835                     | 3.1 (2)             | 1.7 (2)                 | 8.9 (3)              | 388                            | 16.5 (24)            | 10.3 (6)             |                             | 559    | 16.6 (70)   |
| Monroe   | 2,187           | 8.2 (47)               | 7.4 (26)               | 9,062                   | 7.3 (78)            | 2.4 (16)                | 12.4 (34)            | 3,664                          | 17.4 (48)            | 13.7 (31)            |                             | 5,363  | 9.0 (37)    |
| Montcalm   | 1,120           | 6.9 (20)               | 7.1 (20)               | 5,494                   | 6.0 (48)            | 3.0 (32)                | 12.0 (26)            | 2,591                          | 17.3 (44)            | 12.3 (15)            |                             | 3,576  | 5.0 (14)    |
| Montmorenc                                       | 121             | 8.3 (50)               | 5.8 (5)                | 688                     | 6.0 (48)            | 4.1 (65)                | 16.6 (78)            | 366                            | 16.9 (31)            | 21.6 (82)            |                             | 442    | 5.2 (16)    |
| Muskegon   | 4,567           | 9.1 (65)               | 6.6 (10)               | 20,280                  | 4.6 (17)            | 4.4 (70)                | 11.4 (18)            | 9,572                          | 16.0 (19)            | 12.3 (15)            |                             | 12,834 | 19.9 (74)   |
| Newaygo  | 1,044           | 6.6 (12)               | 9.9 (64)               | 5,563                   | 6.0 (48)            | 2.8 (29)                | 14.3 (65)            | 2,822                          | 17.2 (41)            | 15.2 (59)            |                             | 3,699  | 11.5 (51)   |
| Oakland  | 11,254          | 9.7 (70)               | 6.8 (15)               | 48,188                  | 5.6 (40)            | 3.3 (47)                | 11.3 (17)            | 20,460                         | 16.0 (19)            | 13.6 (30)            |                             | 30,495 | 14.2 (65)   |
| Oceana   | 673             | 8.2 (47)               | 8.8 (51)               | 3,621                   | 6.5 (67)            | 2.3 (11)                | 15.7 (74)            | 1,845                          | 22.0 (81)            | 19.5 (79)            |                             | 2,504  | 10.2 (43)   |
| Ogemaw   | 372             | 6.7 (16)               | 11.3 (75)              | 1,756                   | 6.0 (48)            | 2.3 (11)                | 15.8 (75)            | 804                            | 19.0 (68)            | 17.7 (76)            |                             | 1,118  | 10.1 (42)   |
| Ontonagon  | 68              | * *                    | * *                    | 433                     | 7.2 (77)            | 2.5 (20)                | 17.1 (81)            | 241                            | 17.8 (54)            | 14.9 (53)            |                             | 274    | 3.6 (3)     |
| Osceola  | 455             | 6.8 (19)               | 11.6 (77)              | 2,203                   | 4.9 (22)            | 3.4 (49)                | 10.5 (11)            | 1,085                          | 15.9 (15)            | 13.4 (26)            |                             | 1,510  | 20.7 (76)   |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 6B**  
**2008 - 2010 Pediatric Nutrition Surveillance** (1)  
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**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| Comparison of Growth and Anemia Indicators (3,4) |                 |                        |                        |                         |                     |                     |                         |              |                                |                      |                             |             |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|---------------------|-------------------------|--------------|--------------------------------|----------------------|-----------------------------|-------------|
| County   | Birthweight (5) |                        |                        | Height and Weight       |                     |                     |                         |              |                                |                      | Anemia<br>Low Hb/Hct<br>(8) |             |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     |                     | Under-<br>weight<br>(7) | Obese<br>(7) | ≥ 2 Yrs<br>Over-<br>weight (7) |                      |                             |             |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank) | %<br>≥95th<br>(Rank)    | Number       | %<br>85th- <95th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                      | %<br>(Rank) |
| Oscoda   | 117             | 9.4 (67)               | 8.5 (49)               | 614                     | 5.0 (24)            | 3.4 (49)            | 12.9 (42)               | 302          | 15.9 (15)                      | 12.6 (19)            | 404                         | 7.9 (33)    |
| Otsego   | 441             | 6.6 (12)               | 10.2 (67)              | 2,424                   | 4.7 (19)            | 3.0 (32)            | 12.9 (42)               | 1,207        | 17.4 (48)                      | 13.9 (35)            | 1,650                       | 5.3 (18)    |
| Ottawa   | 1,508           | 7.0 (23)               | 10.4 (71)              | 7,448                   | 4.0 (8)             | 3.6 (52)            | 10.8 (14)               | 3,664        | 14.5 (7)                       | 10.2 (4)             | 4,719                       | 24.4 (81)   |
| Presque Is                                       | 135             | 6.7 (16)               | 8.9 (52)               | 732                     | 2.5 (1)             | 4.2 (67)            | 10.7 (13)               | 384          | 14.3 (6)                       | 13.3 (24)            | 469                         | 10.4 (46)   |
| Roscommon  | 364             | 6.0 (5)                | 6.0 (6)                | 1,816                   | 7.3 (78)            | 2.3 (11)            | 12.7 (37)               | 836          | 17.6 (51)                      | 14.2 (40)            | 1,214                       | 6.9 (24)    |
| Saginaw  | 4,261           | 10.4 (77)              | 6.4 (9)                | 19,421                  | 5.3 (30)            | 3.1 (35)            | 14.5 (68)               | 9,600        | 18.4 (63)                      | 15.0 (55)            | 13,439                      | 13.5 (63)   |
| Sanilac  | 722             | 7.6 (36)               | 4.8 (1)                | 3,370                   | 3.6 (5)             | 5.5 (80)            | 7.1 (1)                 | 1,548        | 11.3 (1)                       | 8.6 (2)              | 2,272                       | 3.5 (2)     |
| Schoolcraf                                       | 148             | 10.8 (78)              | 11.5 (76)              | 771                     | 3.1 (2)             | 10.5 (83)           | 7.3 (2)                 | 362          | 13.5 (3)                       | 8.3 (1)              | 491                         | 12.6 (58)   |
| Shiawassee                                       | 1,201           | 7.0 (23)               | 6.8 (15)               | 5,709                   | 4.4 (13)            | 6.2 (82)            | 12.2 (28)               | 2,769        | 16.8 (30)                      | 16.0 (70)            | 3,857                       | 4.1 (8)     |
| St Clair   | 2,561           | 8.9 (63)               | 6.6 (10)               | 11,459                  | 5.9 (46)            | 4.5 (72)            | 10.9 (15)               | 5,132        | 14.7 (9)                       | 11.4 (10)            | 7,617                       | 12.1 (55)   |
| St Joseph  | 1,488           | 6.9 (20)               | 7.3 (23)               | 7,328                   | 6.3 (59)            | 4.3 (69)            | 15.9 (76)               | 3,443        | 19.6 (71)                      | 19.8 (80)            | 4,696                       | 10.8 (48)   |

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares this county's rate to other counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.

(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 6B**  
**2008 - 2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Growth and Anemia Indicators by County**  
**Children Aged < 5 Years** (2)

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| Comparison of Growth and Anemia Indicators |                 |                        |                        |                         |                     |                         |                      |                                |                      |                      |                             | (3,4)   |             |
|--|-----------------|------------------------|------------------------|-------------------------|---------------------|-------------------------|----------------------|--------------------------------|----------------------|----------------------|-----------------------------|---------|-------------|
| County                                     | Birthweight (5) |                        |                        | Height and Weight       |                     |                         |                      |                                |                      |                      | Anemia<br>Low Hb/Hct<br>(8) |         |             |
|  | Low             |                        | High                   | Short<br>Stature<br>(6) |                     | Under-<br>weight<br>(7) | Obese<br>(7)         | ≥ 2 Yrs<br>Over-<br>weight (7) |                      |                      |                             |         |             |
|  | Number          | %<br><2500 g<br>(Rank) | %<br>>4000 g<br>(Rank) | Number                  | %<br><5th<br>(Rank) | %<br><5th<br>(Rank)     | %<br>≥95th<br>(Rank) | Number                         | %<br>85th-<br>(Rank) | %<br><95th<br>(Rank) | %<br>≥95th<br>(Rank)        | Number  | %<br>(Rank) |
| Tuscola                                    | 965             | 8.3 (50)               | 7.0 (19)               | 4,714                   | 5.9 (46)            | 3.7 (55)                | 9.4 (5)              | 2,266                          | 14.6 (8)             | 10.4 (7)             |                             | 3,178   | 7.2 (26)    |
| Van Buren                                  | 1,665           | 7.7 (39)               | 9.4 (56)               | 8,490                   | 5.6 (40)            | 3.3 (47)                | 16.7 (79)            | 4,108                          | 17.8 (54)            | 15.0 (55)            |                             | 5,536   | 23.7 (79)   |
| Washtenaw                                  | 3,553           | 9.9 (73)               | 6.8 (15)               | 15,661                  | 5.0 (24)            | 4.1 (65)                | 11.8 (22)            | 6,628                          | 16.3 (22)            | 12.8 (20)            |                             | 9,584   | 23.0 (78)   |
| Wayne                                      | 40,208          | 11.4 (81)              | 5.5 (4)                | 166,420                 | 6.2 (55)            | 4.8 (75)                | 12.3 (30)            | 69,575                         | 14.9 (10)            | 12.4 (17)            |                             | 93,139  | 20.9 (77)   |
| Wexford                                    | 912             | 7.8 (40)               | 9.3 (54)               | 4,208                   | 5.3 (30)            | 2.4 (16)                | 10.5 (11)            | 1,959                          | 17.2 (41)            | 13.9 (35)            |                             | 2,777   | 17.5 (72)   |
| Unknown Counties                           | 62              | * *                    | * *                    | 389                     | 11.3 (83)           | 3.1 (35)                | 27.2 (83)            | 120                            | 12.5 (2)             | 33.3 (83)            |                             | 564     | 51.1 (83)   |
| Michigan                                   | 162,623         | 9.3                    | 7.0                    | 727,012                 | 5.9                 | 3.7                     | 12.7                 | 324,031                        | 16.5                 | 13.6                 |                             | 447,062 | 15.4        |

- (1) Reporting period is January 1 through December 31.  
(2) Analyses based on one record per child.  
(3) Excludes records with unknown data or errors.  
(4) Rank compares this county's rate to other counties. Rank 1 = best rate.  
(5) Infants born during the reporting period included in the analysis.  
(6) Based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older.  
(7) Based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older. 85th - < 95th percentile category identifies overweight children and ≥ 95th percentile category identifies obese children.  
(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.  
\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

**Table 7B**  
**2008 - 2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**

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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County** (2)  
**Children Aged < 5 Years** (3)

| Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5) |                   |                  |        |                               |        |                                |                             |                               |        |                               |                             |           |                      |           |
|---|-------------------|------------------|--------|-------------------------------|--------|--------------------------------|-----------------------------|-------------------------------|--------|-------------------------------|-----------------------------|-----------|----------------------|-----------|
|   | Breastfeeding (6) |                  |        |                               |        |                                | Exclusive Breastfeeding (7) |                               |        |                               | ≤2 Hours TV Viewing/Day (8) |           | Smoking in Household |           |
| County  | Number            | % Ever Breastfed | Number | % Breastfed At Least 6 Months | Number | % Breastfed At Least 12 Months | Number                      | % Breastfed At Least 3 Months | Number | % Breastfed At Least 6 Months | Number                      | %         | Number               | %         |
|   |                   | (Rank)           |        | (Rank)                        |        | (Rank)                         |                             | (Rank)                        |        | (Rank)                        |                             | (Rank)    |                      | (Rank)    |
| Alcona  | 192               | 64.1 (26)        | 142    | 21.1 (26)                     | 110    | 13.6 (13)                      | 110                         | 26.4 (8)                      | 106    | 6.6 (48)                      | 186                         | 87.1 (43) | 249                  | 8.4 (40)  |
| Alger   | 180               | 42.8 (81)        | 121    | 8.3 (81)                      | 106    | 9.4 (43)                       | 84                          | * *                           | 79     | * *                           | 193                         | 91.7 (8)  | 244                  | 6.6 (24)  |
| Allegan   | 5,690             | 64.1 (26)        | 4,442  | 20.1 (30)                     | 4,045  | 9.7 (38)                       | 3,029                       | 19.4 (34)                     | 3,070  | 7.2 (43)                      | 7,135                       | 84.9 (56) | 9,138                | 4.4 (3)   |
| Alpena  | 736               | 44.0 (78)        | 638    | 17.9 (44)                     | 553    | 11.8 (19)                      | 448                         | 17.0 (46)                     | 448    | 8.0 (35)                      | 744                         | 93.1 (5)  | 983                  | 7.2 (32)  |
| Antrim  | 467               | 74.7 (3)         | 400    | 21.8 (19)                     | 361    | 13.9 (11)                      | 260                         | 28.1 (5)                      | 254    | 11.4 (9)                      | 575                         | 90.1 (18) | 703                  | 12.8 (73) |
| Arenac  | 418               | 57.7 (55)        | 354    | 18.9 (36)                     | 313    | 10.5 (27)                      | 210                         | 15.2 (53)                     | 209    | 8.1 (31)                      | 642                         | 84.4 (60) | 710                  | 15.5 (77) |
| Baraga  | 239               | 54.4 (64)        | 206    | 14.6 (64)                     | 181    | 7.7 (63)                       | 145                         | 20.7 (24)                     | 148    | 8.1 (31)                      | 301                         | 89.7 (24) | 352                  | 5.7 (17)  |
| Barry   | 1,110             | 59.5 (48)        | 1,005  | 17.3 (53)                     | 764    | 8.4 (58)                       | 779                         | 18.6 (37)                     | 810    | 6.4 (49)                      | 1,593                       | 86.4 (49) | 1,958                | 6.4 (22)  |
| Bay   | 2,496             | 56.0 (60)        | 2,018  | 14.0 (71)                     | 1,599  | 6.5 (73)                       | 1,329                       | 13.1 (65)                     | 1,275  | 3.6 (71)                      | 2,624                       | 91.3 (10) | 3,498                | 9.1 (51)  |
| Benzie  | 381               | 67.2 (13)        | 325    | 22.8 (14)                     | 287    | 10.5 (27)                      | 227                         | 23.8 (13)                     | 224    | 10.7 (12)                     | 489                         | 88.5 (31) | 597                  | 4.7 (7)   |
| Berrien   | 3,891             | 48.4 (75)        | 3,263  | 14.1 (70)                     | 2,674  | 8.8 (49)                       | 2,141                       | 12.9 (66)                     | 2,197  | 5.6 (61)                      | 4,071                       | 77.3 (79) | 5,719                | 11.0 (67) |
| Branch  | 1,396             | 59.0 (50)        | 1,164  | 18.6 (41)                     | 940    | 9.4 (43)                       | 904                         | 17.0 (46)                     | 906    | 7.7 (38)                      | 1,827                       | 85.3 (54) | 2,265                | 9.0 (48)  |
| Calhoun   | 3,739             | 51.1 (69)        | 2,976  | 11.9 (77)                     | 2,340  | 5.2 (79)                       | 2,421                       | 8.6 (75)                      | 2,378  | 3.5 (72)                      | 4,723                       | 89.6 (25) | 6,191                | 6.5 (23)  |

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares this county's rate to other counties. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 7B**  
**2008 - 2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**

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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County**  
**Children Aged < 5 Years** (3)

(2)

| Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5) |                   |                        |        |  |        |   |                             |  |        |  |                             |           |                      |           |
|---|-------------------|------------------------|--------|--|--------|---|-----------------------------|--|--------|--|-----------------------------|-----------|----------------------|-----------|
|   | Breastfeeding (6) |                        |        |  |        |   | Exclusive Breastfeeding (7) |  |        |  | ≤2 Hours TV Viewing/Day (8) |           | Smoking in Household |           |
| County  | Number            | %<br>Ever<br>Breastfed | Number | %<br>Breastfed<br>At<br>Least<br>6<br>Months | Number | %<br>Breastfed<br>At<br>Least<br>12<br>Months | Number                      | %<br>Breastfed<br>At<br>Least<br>3<br>Months | Number | %<br>Breastfed<br>At<br>Least<br>6<br>Months | Number                      | %         | Number               | %         |
|   |                   | (Rank)                 |        | (Rank)                                       |        | (Rank)  |                             | (Rank)                                       |        | (Rank)                                       |                             | (Rank)    |                      | (Rank)    |
| Cass  | 1,725             | 61.9 (36)              | 1,501  | 21.9 (18)                                    | 1,222  | 13.7 (12)                                     | 972                         | 17.6 (43)                                    | 950    | 8.9 (24)                                     | 2,215                       | 83.7 (65) | 2,788                | 7.2 (32)  |
| Charlevoix  | 508               | 73.8 (5)               | 413    | 31.2 (3)                                     | 364    | 17.0 (4)                                      | 284                         | 32.7 (1)                                     | 284    | 9.9 (15)                                     | 620                         | 89.4 (27) | 747                  | 6.3 (21)  |
| Cheboygan   | 566               | 61.0 (43)              | 455    | 22.0 (17)                                    | 374    | 12.3 (18)                                     | 289                         | 19.7 (31)                                    | 265    | 6.0 (55)                                     | 651                         | 87.9 (37) | 800                  | 7.0 (29)  |
| Chippewa  | 977               | 61.0 (43)              | 776    | 22.4 (16)                                    | 640    | 11.3 (21)                                     | 526                         | 22.1 (20)                                    | 496    | 9.5 (17)                                     | 1,035                       | 88.5 (31) | 1,344                | 8.8 (46)  |
| Clare   | 867               | 50.4 (70)              | 695    | 13.2 (75)                                    | 648    | 7.4 (65)                                      | 461                         | 13.7 (59)                                    | 480    | 3.3 (74)                                     | 1,022                       | 88.2 (36) | 1,298                | 15.6 (78) |
| Clinton   | 919               | 65.3 (18)              | 830    | 21.8 (19)                                    | 610    | 14.4 (10)                                     | 548                         | 19.7 (31)                                    | 558    | 7.9 (37)                                     | 949                         | 86.5 (48) | 1,274                | 5.0 (9)   |
| Crawford  | 324               | 63.0 (31)              | 224    | 14.7 (62)                                    | 205    | 8.8 (49)                                      | 132                         | 13.6 (61)                                    | 131    | 6.1 (52)                                     | 303                         | 87.1 (43) | 421                  | 9.3 (52)  |
| Delta   | 913               | 61.2 (41)              | 779    | 18.6 (41)                                    | 639    | 8.6 (53)                                      | 473                         | 13.7 (59)                                    | 456    | 6.1 (52)                                     | 1,000                       | 92.3 (6)  | 1,282                | 6.9 (28)  |
| Dickinson   | 612               | 62.9 (32)              | 512    | 23.6 (13)                                    | 423    | 10.6 (26)                                     | 336                         | 25.0 (9)                                     | 356    | 8.4 (27)                                     | 649                         | 89.1 (28) | 815                  | 5.5 (15)  |
| Eaton   | 1,451             | 67.0 (14)              | 1,205  | 21.2 (22)                                    | 946    | 9.7 (38)                                      | 956                         | 16.7 (48)                                    | 968    | 6.7 (47)                                     | 1,691                       | 87.2 (40) | 2,339                | 5.0 (9)   |
| Emmet   | 735               | 72.1 (7)               | 627    | 24.4 (12)                                    | 504    | 13.1 (14)                                     | 322                         | 27.3 (7)                                     | 328    | 13.7 (3)                                     | 867                         | 91.6 (9)  | 1,089                | 5.3 (12)  |
| Genesee   | 11,795            | 43.2 (80)              | 9,127  | 9.4 (79)                                     | 6,646  | 4.4 (80)                                      | 6,245                       | 8.8 (74)                                     | 6,078  | 2.9 (75)                                     | 9,699                       | 80.3 (75) | 14,780               | 7.1 (31)  |
| Gladwin   | 603               | 61.9 (36)              | 499    | 18.4 (43)                                    | 445    | 10.3 (30)                                     | 270                         | 23.0 (17)                                    | 287    | 9.4 (18)                                     | 798                         | 85.1 (55) | 943                  | 17.1 (79) |

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(4) Excludes records with unknown data or errors.

(5) Rank compares this county's rate to other counties. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County**  
**Children Aged < 5 Years** (3)

(2)

| <b>Comparison of Breastfeeding, TV Viewing, and Smoking in Household</b> (4,5) |                             |                        |        |  |                                       |   |        |  |   |  |
|--|-----------------------------|------------------------|--------|--|---------------------------------------|---|--------|--|---|--|
|  | <b>Breastfeeding</b><br>(6) |                        |        |  | <b>Exclusive Breastfeeding</b><br>(7) |   |        |  | <b>≤2 Hours TV<br/>Viewing/Day</b><br>(8) | <b>Smoking in<br/>Household</b>              |
| <b>County</b>  | Number                      | %<br>Ever<br>Breastfed | Number | %<br>Breastfed<br>At<br>Least<br>6<br>Months | Number                                | %<br>Breastfed<br>At<br>Least<br>12<br>Months | Number | %<br>Breastfed<br>At<br>Least<br>3<br>Months | Number                                    | %<br>Breastfed<br>At<br>Least<br>6<br>Months |
|  |                             | (Rank)                 |        | (Rank)                                       |                                       | (Rank)  |        | (Rank)                                       |   | (Rank)                                       |
| Gogebic  | 398                         | 58.8 (52)              | 301    | 18.9 (36)                                    | 225                                   | 7.1 (68)                                      | 212    | 21.2 (22)                                    | 220                                       | 7.7 (38)                                     |
| Gr Travers   | 1,854                       | 80.2 (1)               | 1,482  | 32.8 (2)                                     | 1,243                                 | 20.1 (2)                                      | 922    | 30.6 (2)                                     | 966                                       | 11.7 (8)                                     |
| Gratiot  | 1,080                       | 61.7 (39)              | 941    | 22.6 (15)                                    | 721                                   | 11.2 (22)                                     | 618    | 22.2 (19)                                    | 631                                       | 10.5 (13)                                    |
| Hillsdale  | 1,058                       | 65.1 (20)              | 928    | 21.4 (21)                                    | 730                                   | 10.1 (32)                                     | 716    | 24.2 (12)                                    | 718                                       | 13.2 (5)                                     |
| Houghton   | 812                         | 72.7 (6)               | 645    | 36.6 (1)                                     | 462                                   | 18.4 (3)                                      | 471    | 28.0 (6)                                     | 449                                       | 12.2 (7)                                     |
| Huron  | 821                         | 52.6 (67)              | 650    | 14.2 (69)                                    | 473                                   | 7.0 (69)                                      | 477    | 16.6 (49)                                    | 463                                       | 5.8 (58)                                     |
| Ingham   | 5,473                       | 62.6 (33)              | 4,834  | 20.1 (30)                                    | 3,754                                 | 11.4 (20)                                     | 3,773  | 11.4 (70)                                    | 3,814                                     | 5.2 (65)                                     |
| Ionia  | 1,632                       | 53.7 (65)              | 1,304  | 15.5 (57)                                    | 1,104                                 | 9.3 (46)                                      | 825    | 19.9 (30)                                    | 853                                       | 10.9 (11)                                    |
| Iosco  | 554                         | 53.1 (66)              | 436    | 14.4 (66)                                    | 336                                   | 6.8 (70)                                      | 267    | 12.0 (68)                                    | 260                                       | 2.7 (77)                                     |
| Iron   | 319                         | 60.2 (45)              | 230    | 20.4 (29)                                    | 207                                   | 10.1 (32)                                     | 178    | 24.7 (11)                                    | 177                                       | 9.6 (16)                                     |
| Isabella   | 1,512                       | 66.7 (16)              | 1,241  | 20.9 (27)                                    | 980                                   | 9.8 (37)                                      | 778    | 21.5 (21)                                    | 792                                       | 9.2 (21)                                     |
| Jackson  | 4,156                       | 55.8 (61)              | 3,577  | 14.9 (61)                                    | 2,843                                 | 6.6 (72)                                      | 2,846  | 13.4 (63)                                    | 2,943                                     | 5.3 (64)                                     |
| Kalamazoo  | 6,008                       | 58.2 (54)              | 4,801  | 18.7 (39)                                    | 3,869                                 | 10.0 (35)                                     | 3,381  | 17.4 (44)                                    | 3,215                                     | 8.4 (27)                                     |
|  | 6,675                       | 73.9 (81)              | 8,730  | 7.9 (38)                                     |                                       |   |        |  |   |  |

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(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

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**Table 7B**  
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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County** (2)  
**Children Aged < 5 Years** (3)

| <b>Comparison of Breastfeeding, TV Viewing, and Smoking in Household</b> (4,5) |                             |                        |        |  |                                       |   |        |  |   |  |
|--|-----------------------------|------------------------|--------|--|---------------------------------------|---|--------|--|---|--|
|  | <b>Breastfeeding</b><br>(6) |                        |        |  | <b>Exclusive Breastfeeding</b><br>(7) |   |        |  | <b>≤2 Hours TV<br/>Viewing/Day</b><br>(8) | <b>Smoking in<br/>Household</b>              |
| <b>County</b>  | Number                      | %<br>Ever<br>Breastfed | Number | %<br>Breastfed<br>At<br>Least<br>6<br>Months | Number                                | %<br>Breastfed<br>At<br>Least<br>12<br>Months | Number | %<br>Breastfed<br>At<br>Least<br>3<br>Months | Number                                    | %<br>Breastfed<br>At<br>Least<br>6<br>Months |
|  |                             | (Rank)                 |        | (Rank)                                       |                                       | (Rank)  |        | (Rank)                                       |   | (Rank)                                       |
| Kalkaska   | 473                         | 74.2 (4)               | 354    | 26.3 (7)                                     | 303                                   | 16.5 (6)                                      | 185    | 29.2 (3)                                     | 187                                       | 16.0 (1)                                     |
| Kent   | 16,806                      | 61.9 (36)              | 14,597 | 20.5 (28)                                    | 11,554                                | 11.1 (23)                                     | 9,768  | 12.4 (67)                                    | 9,737                                     | 7.0 (45)                                     |
| Lake   | 255                         | 56.1 (58)              | 210    | 14.3 (68)                                    | 189                                   | 5.8 (77)                                      | 150    | 14.0 (57)                                    | 159                                       | 5.7 (60)                                     |
| Lapeer   | 2,086                       | 59.7 (47)              | 1,597  | 17.5 (49)                                    | 1,269                                 | 11.0 (24)                                     | 1,155  | 15.1 (54)                                    | 1,152                                     | 5.9 (57)                                     |
| Leelanau   | 237                         | 77.6 (2)               | 165    | 29.1 (4)                                     | 135                                   | 25.2 (1)                                      | 91     | * *  | 88  | * *  |
| Lenawee  | 2,212                       | 59.2 (49)              | 1,764  | 19.1 (35)                                    | 1,384                                 | 8.2 (60)                                      | 1,295  | 14.4 (55)                                    | 1,266                                     | 4.7 (67)                                     |
| Livingston   | 1,885                       | 65.1 (20)              | 1,223  | 19.5 (34)                                    | 1,154                                 | 10.3 (30)                                     | 864    | 20.5 (27)                                    | 885                                       | 7.0 (45)                                     |
| Luce   | 250                         | 63.6 (28)              | 201    | 17.4 (50)                                    | 151                                   | 9.9 (36)                                      | 126    | 18.3 (42)                                    | 130                                       | 9.2 (21)                                     |
| Mackinac   | 173                         | 71.1 (9)               | 164    | 25.0 (10)                                    | 150                                   | 12.7 (15)                                     | 93     | * *  | 109                                       | 13.8 (2)                                     |
| Macomb   | 13,235                      | 50.3 (71)              | 9,604  | 15.2 (59)                                    | 7,878                                 | 7.6 (64)                                      | 7,058  | 11.7 (69)                                    | 6,683                                     | 5.0 (66)                                     |
| Manistee   | 489                         | 64.2 (24)              | 391    | 17.4 (50)                                    | 351                                   | 8.5 (56)                                      | 233    | 18.5 (38)                                    | 232                                       | 6.0 (55)                                     |
| Marquette  | 1,279                       | 64.9 (22)              | 1,031  | 25.2 (9)                                     | 866                                   | 16.2 (7)                                      | 723    | 23.4 (15)                                    | 737                                       | 10.3 (14)                                    |
| Mason  | 810                         | 56.5 (56)              | 571    | 21.2 (22)                                    | 516                                   | 9.5 (41)                                      | 425    | 23.1 (16)                                    | 400                                       | 9.3 (20)                                     |
|  | 838                         | 87.8 (38)              | 1,080  | 9.5 (56)                                     |                                       |   |        |  |   |  |

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(5) Rank compares this county's rate to other counties. Rank 1 = best rate.

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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County**  
**Children Aged < 5 Years** (3)

(2)

| Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5) |                   |                  |        |                               |        |                                |                             |                               |        |                               |                             |           |                      |           |
|---|-------------------|------------------|--------|-------------------------------|--------|--------------------------------|-----------------------------|-------------------------------|--------|-------------------------------|-----------------------------|-----------|----------------------|-----------|
|   | Breastfeeding (6) |                  |        |                               |        |                                | Exclusive Breastfeeding (7) |                               |        |                               | ≤2 Hours TV Viewing/Day (8) |           | Smoking in Household |           |
| County  | Number            | % Ever Breastfed | Number | % Breastfed At Least 6 Months | Number | % Breastfed At Least 12 Months | Number                      | % Breastfed At Least 3 Months | Number | % Breastfed At Least 6 Months | Number                      | %         | Number               | %         |
|   |                   | (Rank)           |        | (Rank)                        |        | (Rank)                         |                             | (Rank)                        |        | (Rank)                        |                             | (Rank)    |                      | (Rank)    |
| Mecosta   | 1,089             | 62.4 (34)        | 849    | 19.8 (33)                     | 689    | 9.6 (40)                       | 611                         | 20.6 (25)                     | 610    | 11.1 (10)                     | 1,101                       | 93.6 (4)  | 1,469                | 7.4 (34)  |
| Menominee   | 457               | 54.5 (63)        | 340    | 13.5 (74)                     | 308    | 6.5 (73)                       | 268                         | 15.7 (51)                     | 259    | 6.2 (51)                      | 405                         | 89.6 (25) | 562                  | 6.0 (19)  |
| Midland   | 1,717             | 68.2 (11)        | 1,273  | 17.6 (48)                     | 1,130  | 10.4 (29)                      | 822                         | 23.6 (14)                     | 879    | 9.0 (23)                      | 1,741                       | 88.6 (30) | 2,324                | 5.1 (11)  |
| Missaukee   | 240               | 71.3 (8)         | 218    | 18.8 (38)                     | 177    | 12.4 (16)                      | 132                         | 22.7 (18)                     | 138    | 8.0 (35)                      | 269                         | 90.7 (14) | 339                  | 10.9 (66) |
| Monroe  | 3,209             | 54.8 (62)        | 2,737  | 14.4 (66)                     | 2,059  | 7.3 (66)                       | 1,914                       | 14.0 (57)                     | 1,886  | 6.1 (52)                      | 2,938                       | 82.6 (69) | 4,330                | 9.4 (53)  |
| Montcalm  | 1,657             | 61.2 (41)        | 1,325  | 18.7 (39)                     | 1,060  | 8.1 (62)                       | 879                         | 20.3 (28)                     | 908    | 8.1 (31)                      | 1,810                       | 87.1 (43) | 2,415                | 9.4 (53)  |
| Montmorenc  | 177               | 62.1 (35)        | 154    | 16.9 (54)                     | 126    | 9.5 (41)                       | 108                         | 19.4 (34)                     | 112    | 5.4 (63)                      | 248                         | 84.3 (61) | 271                  | 11.4 (69) |
| Muskegon  | 6,115             | 48.6 (74)        | 4,546  | 13.2 (75)                     | 4,256  | 6.3 (75)                       | 3,287                       | 13.3 (64)                     | 3,231  | 4.1 (69)                      | 6,794                       | 84.9 (56) | 8,890                | 8.7 (45)  |
| Newaygo   | 1,528             | 64.2 (24)        | 1,216  | 20.1 (30)                     | 1,098  | 10.1 (32)                      | 838                         | 19.7 (31)                     | 848    | 7.2 (43)                      | 2,018                       | 84.5 (59) | 2,342                | 9.6 (58)  |
| Oakland   | 16,221            | 50.0 (72)        | 12,756 | 17.9 (44)                     | 9,042  | 9.4 (43)                       | 9,351                       | 14.1 (56)                     | 9,012  | 6.3 (50)                      | 14,133                      | 81.6 (71) | 21,166               | 4.5 (4)   |
| Oceana  | 970               | 63.3 (30)        | 767    | 26.3 (7)                      | 712    | 14.6 (9)                       | 530                         | 17.4 (44)                     | 521    | 8.1 (31)                      | 1,250                       | 80.2 (76) | 1,478                | 8.5 (42)  |
| Ogemaw  | 550               | 56.2 (57)        | 438    | 15.3 (58)                     | 330    | 7.3 (66)                       | 255                         | 18.4 (39)                     | 250    | 5.6 (61)                      | 564                         | 82.8 (68) | 733                  | 11.9 (71) |
| Ontonagon   | 97                | * *              | 91     | * *                           | 78     | * *                            | 56                          | * *                           | 61     | * *                           | 156                         | 78.2 (78) | 168                  | 11.9 (71) |

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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County**  
**Children Aged < 5 Years** (3)

(2)

| Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5) |                   |                  |        |                               |        |                                |                             |                               |        |                               |                             |           |                      |           |
|---|-------------------|------------------|--------|-------------------------------|--------|--------------------------------|-----------------------------|-------------------------------|--------|-------------------------------|-----------------------------|-----------|----------------------|-----------|
|   | Breastfeeding (6) |                  |        |                               |        |                                | Exclusive Breastfeeding (7) |                               |        |                               | ≤2 Hours TV Viewing/Day (8) |           | Smoking in Household |           |
| County  | Number            | % Ever Breastfed | Number | % Breastfed At Least 6 Months | Number | % Breastfed At Least 12 Months | Number                      | % Breastfed At Least 3 Months | Number | % Breastfed At Least 6 Months | Number                      | %         | Number               | %         |
|   |                   | (Rank)           |        | (Rank)                        |        | (Rank)                         |                             | (Rank)                        |        | (Rank)                        |                             | (Rank)    |                      | (Rank)    |
| Osceola   | 643               | 63.6 (28)        | 515    | 17.9 (44)                     | 440    | 8.2 (60)                       | 373                         | 20.6 (25)                     | 363    | 8.3 (29)                      | 786                         | 90.3 (17) | 951                  | 13.9 (74) |
| Oscoda  | 166               | 51.2 (68)        | 140    | 6.4 (82)                      | 122    | 5.7 (78)                       | 105                         | 9.5 (73)                      | 99     | * *                           | 177                         | 78.5 (77) | 241                  | 23.2 (83) |
| Otsego  | 672               | 67.0 (14)        | 552    | 21.2 (22)                     | 467    | 10.7 (25)                      | 379                         | 24.8 (10)                     | 372    | 9.4 (18)                      | 803                         | 89.9 (20) | 1,022                | 11.8 (70) |
| Ottawa  | 2,116             | 67.5 (12)        | 1,622  | 27.2 (6)                      | 1,538  | 12.4 (16)                      | 1,154                       | 28.9 (4)                      | 1,188  | 13.5 (4)                      | 2,776                       | 90.7 (14) | 3,431                | 3.8 (2)   |
| Presque Is  | 180               | 56.1 (58)        | 147    | 24.5 (11)                     | 119    | 16.0 (8)                       | 82                          | * *                           | 74     | * *                           | 250                         | 87.2 (40) | 290                  | 20.7 (81) |
| Roscommon   | 544               | 65.3 (18)        | 469    | 17.7 (47)                     | 418    | 9.3 (46)                       | 299                         | 18.4 (39)                     | 318    | 8.5 (26)                      | 577                         | 88.4 (33) | 759                  | 11.1 (68) |
| Saginaw   | 5,900             | 45.7 (77)        | 4,131  | 9.1 (80)                      | 3,574  | 4.2 (81)                       | 2,949                       | 7.5 (76)                      | 2,863  | 3.7 (70)                      | 6,397                       | 80.6 (74) | 8,157                | 9.8 (60)  |
| Sanilac   | 1,010             | 58.5 (53)        | 814    | 13.9 (72)                     | 618    | 6.8 (70)                       | 554                         | 16.6 (49)                     | 556    | 5.8 (58)                      | 989                         | 84.0 (63) | 1,397                | 9.6 (58)  |
| Schoolcraf  | 222               | 50.0 (72)        | 191    | 15.2 (59)                     | 178    | 8.4 (58)                       | 135                         | 15.6 (52)                     | 140    | 8.6 (25)                      | 233                         | 87.1 (43) | 310                  | 14.5 (76) |
| Shiawassee  | 1,678             | 58.9 (51)        | 1,365  | 14.7 (62)                     | 1,189  | 8.7 (51)                       | 811                         | 10.7 (71)                     | 859    | 2.8 (76)                      | 1,926                       | 91.1 (12) | 2,477                | 10.0 (61) |
| St Clair  | 3,603             | 48.2 (76)        | 2,981  | 11.7 (78)                     | 2,392  | 5.9 (76)                       | 1,898                       | 10.2 (72)                     | 1,962  | 4.5 (68)                      | 3,483                       | 86.7 (47) | 4,744                | 10.4 (63) |
| St Joseph   | 2,082             | 61.7 (39)        | 1,689  | 16.5 (55)                     | 1,435  | 8.6 (53)                       | 1,131                       | 13.5 (62)                     | 1,146  | 7.5 (40)                      | 2,535                       | 85.9 (52) | 3,251                | 6.8 (25)  |
| Tuscola   | 1,391             | 59.8 (46)        | 1,086  | 16.2 (56)                     | 912    | 8.7 (51)                       | 641                         | 18.4 (39)                     | 671    | 7.5 (40)                      | 1,529                       | 84.0 (63) | 1,899                | 8.4 (40)  |

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares this county's rate to other counties. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



**Table 7B**  
**2008 - 2010 Pediatric Nutrition Surveillance** (1)  
**Michigan**

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**Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County**  
**Children Aged < 5 Years** (3)

(2)

| Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5) |                   |                  |         |                               |         |                                |                             |                               |         |                               |                             |           |                      |           |
|---|-------------------|------------------|---------|-------------------------------|---------|--------------------------------|-----------------------------|-------------------------------|---------|-------------------------------|-----------------------------|-----------|----------------------|-----------|
|   | Breastfeeding (6) |                  |         |                               |         |                                | Exclusive Breastfeeding (7) |                               |         |                               | ≤2 Hours TV Viewing/Day (8) |           | Smoking in Household |           |
| County  | Number            | % Ever Breastfed | Number  | % Breastfed At Least 6 Months | Number  | % Breastfed At Least 12 Months | Number                      | % Breastfed At Least 3 Months | Number  | % Breastfed At Least 6 Months | Number                      | %         | Number               | %         |
|   |                   | (Rank)           |         | (Rank)                        |         | (Rank)                         |                             | (Rank)                        |         | (Rank)                        |                             | (Rank)    |                      | (Rank)    |
| Van Buren   | 2,296             | 64.8 (23)        | 1,903   | 21.2 (22)                     | 1,597   | 9.3 (46)                       | 1,301                       | 20.1 (29)                     | 1,275   | 8.3 (29)                      | 3,062                       | 87.2 (40) | 3,799                | 6.8 (25)  |
| Washtenaw   | 5,338             | 65.9 (17)        | 4,211   | 28.0 (5)                      | 3,113   | 16.6 (5)                       | 2,833                       | 21.0 (23)                     | 2,722   | 12.6 (6)                      | 4,883                       | 83.6 (67) | 7,187                | 9.5 (56)  |
| Wayne   | 57,694            | 43.3 (79)        | 40,780  | 14.6 (64)                     | 33,459  | 8.6 (53)                       | 30,637                      | 7.3 (77)                      | 29,904  | 3.4 (73)                      | 48,539                      | 72.2 (82) | 73,793               | 9.0 (48)  |
| Wexford   | 1,298             | 70.6 (10)        | 1,040   | 17.4 (50)                     | 832     | 8.5 (56)                       | 724                         | 19.3 (36)                     | 728     | 7.4 (42)                      | 1,322                       | 88.8 (29) | 1,732                | 9.4 (53)  |
| Unknown Counties  | 369               | 16.3 (82)        | 147     | 13.6 (73)                     | 66      | * *                            | 98                          | * *                           | 86      | * *                           | 153                         | 50.3 (83) | 219                  | 21.9 (82) |
| Michigan  | 230,026           | 53.4             | 178,432 | 17.0                          | 144,320 | 9.1                            | 126,686                     | 13.3                          | 125,048 | 5.8                           | 230,150                     | 82.0      | 320,143              | 7.5       |

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